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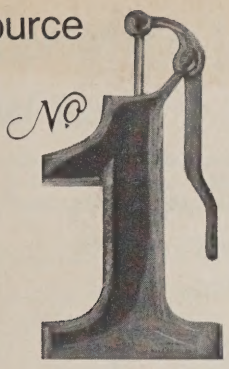

1972 Guide

RAY BRUNETTE
ALLIED ELECTRONICS
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RCA
Industrial Tube Product Guide

RCA | Electronic Components | Harrison, NJ 07029

Scope

This Guide to RCA Industrial Tube Products contains two major sections: **Characteristics** and **Replacement.** In the **Characteristics** section, RCA types are grouped by specific products and arranged by type designation; only major characteristics are tabulated. In the **Replacement** section, types to be replaced are arranged in a special numerical index; the RCA type is specified as a direct replacement or a similar type.

Limited information is given in this catalog; each product group has an expanded catalog with selection charts and more tabulated characteristics in order to narrow your selection. Additional publications are listed for each product. The final choice of type designation should be based on complete ratings and characteristics specified in the individual data sheet for the type.

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Characteristics | Index by Type

Commercial Types

Types are indexed in numerical-alphabetical order. All types starting with a number are listed first; the number (or numerical field) consists of all digits up to a letter, hyphen, slash, or the end (i.e., 0A2, 4-65A, 710/6011, 1612). Types with the same initial numerical field are then arranged alphabetically (i.e., 6AC7W, 6AK6, 6J4, 65J7Y). Types starting with letter(s) follow and are arranged alphabetically. Types with the same alphabetical field are then arranged numerically.

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Developmental Types

Developmental types are suitable for engineering evaluation. The number and identifying data are subject to change. Before specifying any of these types in production equipment, please contact RCA. No obligation is assumed by RCA as to future manufacture of developmental types unless otherwise arranged.

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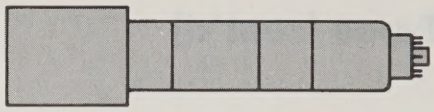
Characteristics | Light Conversion Devices

Camera Tubes | Image Orthicons

Image Orthicons are designed primarily for outdoor and studio, black- and-white or color, live broadcast TV pickup. They are also employed extensively in many military, industrial, and scientific research television systems. A broad choice of tube design features are available: field or non-field mesh design; glass, thin-film semiconductive, or special long-life targets; precision construction; and anti-ghost image section design; microdamp construction; tube size; and matched sets for color pickup.

Typical Applications

- Broadcast Television Live Pickup
- Military and Industrial TV Systems
- Studio Videotape Service



For more information, refer to the product line catalog: RCA Image Orthicons, CAM-800 20 pages. Provides tabulated data and initial replacement information. RCA Bialkon image orthicons are featured.

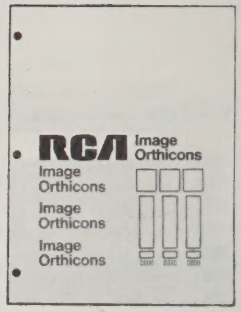


Image Orthicons for Live Black-and-White Television

3″ Diameter Types*

Type	Typical Sens. at Knee lm/ft² (fc)	Amplitude Response at 400 TV Lines Per Cent	Typical Signal-to-Noise Ratio	Maximum Dimensions Overall Length In	Maximum Dimensions Diameter In
4401/V2	1×10^{-2}	55	34 dB	15.45	3.06
5820A	1×10^{-2}	55	34 dB	15.45	3.06
5820A/L	1×10^{-2}	55	34 dB	15.45	3.06
8673	1.5×10^{-2}	60	35 dB	15.45	3.06
8674	1×10^{-2}	55	33 dB	15.45	3.06
8775	1×10^{-2}	55	34 dB	15.45	3.06

4 1/2″ Diameter Types**

7295B	3×10^{-2}	75	38 dB	19.685	4.594
7295C	3×10^{-2}	75	38 dB	19.685	4.594
7389C	5×10^{-2}	75	39.5 dB	19.685	4.594
8748	5×10^{-2}	75	39.5 dB	19.685	4.594
8749	3×10^{-2}	75	38 dB	19.685	4.594

*For target volts = 2.0.
**For target volts = 2.3.
***For target volts = 3.
****Typical operating level; this type has no obvious knee.

Image Orthicons for Military and Industrial Service

3″ Diameter Types*

7198A	3×10^{-5}****	–	9.5 dB	15.45	3.06

Image Orthicons for Live Color Television

3″ Diameter Types*

Type	Typical Sens. at Knee lm/ft² (fc)	Amplitude Response at 400 TV Lines Per cent	Typical Signal-to-Noise Ratio*	Maximum Dimensions Overall Length In	Maximum Dimensions Diameter In
8673	1.5×10^{-2}	60	35 dB	15.45	3.06
8674	1×10^{-2}	55	33 dB	15.45	3.06

3″ Diameter Types (Matched Trios for Color)*

8673/S	1.5×10^{-2}	60	35 dB	15.45	3.06
8674/S	1×10^{-2}	55	33 dB	15.45	3.06

4-1/2″-Diameter Types
(For Luminance Channel of RCA Color Cameras TK-42 and TK-43)

4536***	4×10^{-2}	60	40.5 dB	19.685	4.594

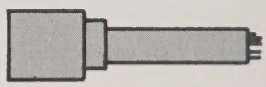
Camera Tubes Silicon-Intensifier Target (SIT) Tubes

16-Millimeter Fiber Optic Face Plate Types—Potted Image Section■

Type	Typ. Amplitude Response at 400 TV Lines Per Cent	Typical Sensitivity μA/lm	Typ. Operating Faceplate Illumination fc	Maximum Dimensions Overall Length in	Maximum Dimensions Diameter in
4804/P2	30	270,000	$\leq 10^{-3}$	7.88	2.08
4804A/P2	30	270,000	$\leq 10^{-3}$	7.88	2.08

■Non-potted versions 4804 and 4804A also available.

SIT Tubes are designed for use in very low light level TV systems. The silicon targets of these tubes are highly resistant to image burn-in and have excellent discharge capabilities, i.e., minimal "comet-tail" effects.



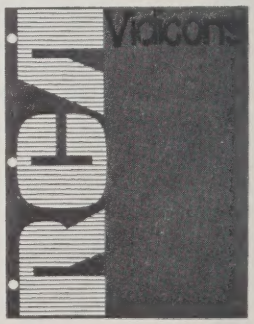
Camera Tubes | Vidicons

Vidicons are designed primarily for TV film studio pickup service and closed-circuit TV applications. Among the choice of tube design features available are deflection and focus methods, ruggedized or non-ruggedized tubes, conventional or low power "dark heaters", photoconductive surface, and tube size.

Typical Applications

- Broadcast Studio Color and Black-and-White Film Pickup
- Space Exploration
- Data Transmission
- Educational, Industrial, and Military Closed-Circuit TV
- Oceanographic Surveys
- Remote Monitor Systems

For more information, refer to the product line catalog: RCA Vidicons, CAM-700B - 6 pages. Provides tabulated data, selection, and application information.



Vidicons for Broadcast-Studio Film-Pickup Service

Magnetic Focus-and-Deflection Tubes

1″-Diameter Types

Type	Typical Faceplate Illum. Footcandles	Typical Signal-Output Current μA	Limiting Resolution TV Lines	Maximum Dimensions Overall Length In	Maximum Dimensions Diameter In
7038	100	0.3	750	6.50	1.050
8572A	100	0.3	1000	6.375	1.050

1-1/2″-Diameter Types

8051	50	0.5	1500	8.00	1.510
8521	1	0.2	1500	8.00	1.510

Electrostatic-Focus, Magnetic-Deflection Tubes

1″-Diameter Types

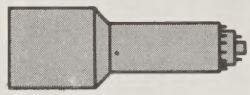
8134/4811	1	0.265	700	6.35	1.028

1-1/2″-Diameter Types

8480	50	0.5	1400	10.375	1.505
8480/4810	50	0.5	1400	10.375	1.505

Characteristics | Light Conversion Devices (cont'd)

Camera Tubes | Vidicons (cont'd)



Fiber Optic-Faceplate Types for Industrial Service*

Magnetic Focus-and-Deflection Tubes

Type	Typical Faceplate Illum. Footcandles	Typical Signal-Output Current μA	Limiting Resolution TV Lines	Maximum Dimensions	
				Overall Length In	Diameter In
4589	0.1	0.08	1100	6.375	1.220

*Other standard vidicon types can be furnished with fiber-optics faceplate on special order.

Vidicons for Live Television and Industrial Service

Magnetic Focus-and-Deflection Tubes

1"-Diameter Types

4520	1	0.2	1100	6.375	1.050
4543	1	0.2	1100	6.375	1.050
4559A/ 8507A	1	0.2	1100	6.375	1.050
7262A	1	0.2	750	5.18	1.050
7735	1	0.15 Min.	700	6.50	1.050
7735A	1	0.15 Min.	700	6.50	1.050
7735B	1	0.275	750	6.50	1.050
8507A	1	0.2	1100	6.375	1.135
8541	1	0.2	1100	6.375	1.050
8541A	1	0.2	1100	6.375	1.135
8541A/X	1	0.2	1100	6.375	1.050
8573A	1	0.2	1100	5.18	1.050

Electrostatic-Focus, Magnetic-Deflection Tubes

1"-Diameter Types

Type	Typical Faceplate Illum. Footcandles	Typical Signal-Output Current μA	Limiting Resolution TV Lines	Maximum Dimensions	
				Overall Length In	Diameter In
4493	Trio for chroma channels of		500	6.35	1.135
4494	live pickup color cameras		500	6.35	1.135
4495			500	6.35	1.135
8134	1	0.265	700	6.35	1.135

Vistacon (Lead-Oxide) Vidicons for Color and B & W Cameras

Magnetic Focus-and-Deflection Tubes

1.2" Diameter Types

Type	Typ. Sensit. μA/lm (After Filtering*)	Typical Dark Current nA	Limiting Resolution TV Lines	Maximum Dimensions	
				Overall Length In	Diameter In
4591B	35*	0.5	600	8.66	1.205
4591G	140*	0.5	600	8.66	1.205
4591L	350	0.5	600	8.66	1.205
4591R	85*	0.5	600	8.66	1.205
4592B	35*	0.5	600	8.66	1.205
4592G	140*	0.5	600	8.66	1.205
4592L	350	0.5	600	8.66	1.205
4592R	85*	0.5	600	8.66	1.205

Vidicons for Space, Military, and Special Industrial Service

Magnetic Focus-and-Deflection Tubes

1"-Diameter Types

Type	Typical Faceplate Illum. Footcandles	Typical Signal-Output Current μA	Limiting Resolution TV Lines	Maximum Dimensions	
				Overall Length In	Diameter In
4500	For high sensitivity storage systems			6.50	1.050
4542	For radar PPI/TV scan conversion			6.375	1.050
4588	For high sensitivity storage systems			6.50	1.050

1-1/2"-Diameter Types

8521	1	0.2	1500	8.00	1.510

Electrostatic-Focus, Magnetic-Deflection Tubes

1-1/2"-Diameter Types

8480	10	0.5	1400	10.375	1.505

Ruggedized Magnetic Focus-and-Deflection Tubes

1"-Diameter Types

4503A	1	0.2	1100	5.25	1.028
7263A	1	0.2	750	5.18	1.050

One-Tube Color Vidicons

4445	1" tube with built-in color encoding filters	6.475	1.135
4559A/ 8507A	For use with optically-relayed color encoding filters	6.375	1.050

Silicon Target (S-T) Type Vidicons

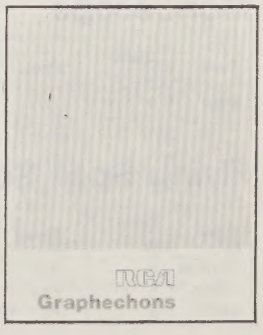
Type	Sensitivity To Visible Light μA/lm	Sensitivity To Tungsten (Visible & IR) μA/lm	Limiting Resolution TV Lines	Maximum Dimensions	
				Overall Length In	Diameter In
4532	910	4350	700	6.375	1.135
4532A	910	4350	700	6.375	1.135

Characteristics | Electrical Storage Tubes

These units accept an electrical signal with a particular time base and hold it until repetition can verify it, then release it as an electrical display using the same or a different time base. The high resolution can produce acceptable TV picture quality.

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
6499	3-3/8		11-27/32	6.3/600	E	E		1500
7539	3-3/8		26	6.3/600	E/M	M/M	30°	10K

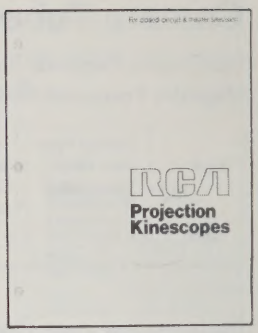
For more information refer to:
RCA Graphechons STC-901



Characteristics | Cathode Ray Tubes

Cathode Ray Tubes provide bright displays of recurrent and non-recurrent electrical phenomena. RCA has been engaged in the development and production of cathode ray tubes for many years. This experience has resulted in a comprehensive product line, covering just about all the applications desired. These designs are grouped below by application.

For more information refer to:
Product line Catalog STC-900
Projection Kinescope STC-902



Oscillograph for Information Display

Curved Faceplate Type

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
2AP1A	2	P1	7-7/16	6.3/600	E	E		1000
2BP1	2	P1	7-5/8	6.3/600	E	E		2500
3AP1A	3	P1	11-1/2	2.5/2.1	E	E		1650
3BP1A	3	P1	10	6.3/600	E	E		2200
3KP1	3	P1	11-1/2	6.3/600	E	E		2500
3RP1	3	P1	9-1/8	6.3/600	E	E		2500
5BP1A	5	P1	16-3/4	6.3/600	E	E		2200
5CP1A	5	P1	16-3/4	6.3/600	E	E		4000
5UP1	5	P1	14-3/4	6.3/600	E	E		2500
5UP31	5	P31	14-3/4	6.3/600	E	E		2500
7VP1	7	P1	14-1/2	6.3/600	E	E		4000
7VP31	7	P31	14-1/2	6.3/600	E	E		4000
902A	2	P1	7-7/16	6.3/600	E	E		660
4490	7	P31	14-5/8	6.3/600	E	E		8000
4491	8	P31	16-1/2	6.3/600	E	E		8000

Oscillograph for Information Comparison

Flat Faceplate Type

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
1EP1	1	P1	4-1/16	6.3/600	E	E		1500
3RP1A	3	P1	9-1/8	6.3/600	E	E		2500
3WP1	3	P1	11-1/2	6.3/600	E	E		2500
5ABP1	5	P1	16-3/4	6.3/600	E	E		6000
5ADP1	5	P1	16-3/4	6.3/600	E	E		6000
5ADP31	5	P31	16-3/4	6.3/600	E	E		6000
4499	5	P1	12	6.3/600	E	E		2800
4572	5	P1	14-3/4	6.3/600	E	E		2500

CRT for Photographic Reproduction

Computer Data Readout

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
1EP11	1	P11	4-1/16	6.3/600	E	E		1500
3WP11	3	P11	11-1/2	6.3/600	E	E		2500
4506	7	Spec.	21-15/16	6.3/600	M	M	42°	25K

Monoscope

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
4560	2		11-5/16	6.3/600	E	E		2500

Flying Spot Scanners

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
5AUP24	5	P24	12-1/2	6.3/600	E	M	40°	27K
5ZP16	5	P16	14-3/8	6.3/600	E	M	40°	27K
4407	5	P37						

Monitor Kinescope

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
7TP4	7	P4	13-1/8	6.3/600	E	M	50°	12K
8HP4	5-3/8 x 7-3/16	P4	9-15/16	6.3/600	E	M	90°	14K
10SP4	6 x 8	P4	16-5/8	6.3/600	E	M	50°	20K
4557	7-1/2 x 10	P4	16-5/8	6.3/600	E	M	70°	16K

CRT for Ground Based Radar

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
3JP7	3	P7	10-1/4	6.3/600	E	E		4000
3RP7A	3	P7	9-1/8	6.3/600	E	E		2500
5ABP7	5	P7	16-3/4	6.3/600	E	E		6000
5FP7A	5	P7	11-1/8	6.3/600	M	M	53°	8000
5UP7	5	P7	14-3/4	6.3/600	E			2500
7MP7	7	P7	12-3/4	6.3/600	M	M	50°	8000
4510	5	P7	12	6.3/600	E	E		6000

Projection Kinescope

for Monochrome CCTV

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
5AZP4	5	P4	12-9/16	6.3/600	E	M	50	36K
7NP4	7	P4	20-1/8	6.6/620	E	M	35	75K
7WP4	7	P4	20-1/16	6.6/620	E	M	35	75K
4486	7	P4	20-1/8	6.6/620	E	M	35	75K

Display Storage Tubes

Airborne Radar—Physical Analysis

Type	Diam. in.	Phos.	Length in.	Heater V/mA	Focus	Defl.	∢	Max V
4412	10	P20	20-1/2	6.3/600	E	E		13K
4454	5	P20	11-1/2	6.3/600	E	M	34	10K
4547	5	P20	11-1/2	6.3/600	E	M	34	10K
6866	5	Spec.	15-1/2	6.3/600	E	E		11K
7183A	5	P20	11-1/2	6.3/600	E	M	34	10K
7268B	5	P20	15-3/4	6.3/600	E	E		11.5K
7315	5	P20	13-1/2	6.3/600	E	E		11K

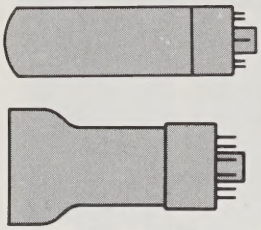
Characteristics | Light Conversion Devices (cont'd)

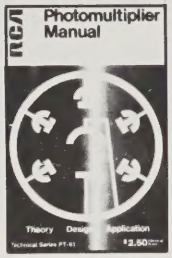
Photomultiplier Tubes

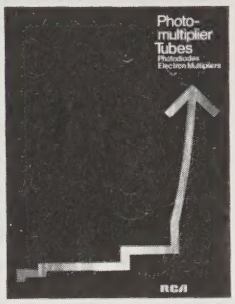
Photomultiplier Tubes are designed for use with extremely low levels of radiation in the ultraviolet, the visible, and the near-infrared regions of the spectrum. Both electrostatically focused and venetian-blind types are available. Photomultiplier tubes are characterized by high current amplification, extremely fast response to pulsed light, low dark current, high sensitivity, and a broad choice of spectral response, tube size, and tube construction.

Typical Applications:

- Scintillation Counting
- Photometry
- Spectrophotometry
- Flying-Spot Generator
- Star Tracking
- Cerenkov Radiation Measurement
- Laser Detection
- Industrial Controls
- Colorimetry
- Timing Measurements







For more information, refer to the product line catalog and manual: RCA Photomultiplier Tubes, Image-Converter Tubes, Photodiodes, PIT-700B—86 pages. Provides tabulated data, numerous selection guides, socket information, and replacement information on photomultiplier tubes. Quantacon photomultiplier tubes are featured. RCA Photomultiplier Manual PT-61. Provides theory, measurement, construction, and principles of operation.

Side On-Types

1-1/8"-Diameter Types

Type	Spectral Response*	Characteristics at 22° C: Anode Dark at Current nA	Characteristics at 22° C: Anode Luminous Sensitivity A/lm	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter In
1P21	S-4 (102)	1	20	3.68	1.31
1P22	S-8 (105)	6	0.8	3.68	1.31
1P28	S-5 (104)	5	20	3.68	1.31
1P28/V1	—(103)	2	40	3.68	1.31
1P28A	S-5 (104)	5	20	3.68	1.31
1P28A/V1	—(103)	2	40	3.68	1.31
931A	S-4 (102)	5	20	3.68	1.31
931VA	S-4 (102)	5	20	3.68	1.31
2031	S-4 (102)	5	20	3.68	1.31
2055	—	—	—	3.68	1.31
4471	S-4 (102)	5	20	3.68	1.31
4472	S-4 (102)	5	20	3.68	1.31
4473	S-4 (102)	1	20	3.68	1.31
4552	—(136)	0.8	20	3.10	1.18
4555	—(136)	0.8	800V	3.10	1.18
6328	S-4 (102)	—	—	3.12	1.31
7117	S-4 (102)	—	—	3.12	1.31
7200	S-19 (109)	4	20	5.69	1.31

Head-On Types

3/4"-Diameter Types

4516	—(115)	0.2	7	3.94	0.78
4802	S-11 (107)	200	2000	3.8	0.78
7764	S-11 (107)	2	0.3	2.75	0.78
7767	S-11 (107)	4	7.5	3.94	0.78
8644	S-20 (110)	3	30	3.8	0.78
8645	S-20 (110)	3	30	4.55	0.95

1-1/2"-Diameter Types

2060	S-11 (107)	4.5	20	4.85	1.56
2067	S-11 (107)	2.6	20	2.80	1.56
4438	S-11 (107)	16	20	3.91	1.56
4439	S-11 (107)	16	20	3.91	1.56
4440	S-11 (107)	16	20	4.12	1.56
4517	—(115)	0.2	7	4.57	1.56
6199	S-11 (107)	4.5	20	4.57	1.56
7102	S-1 (101)	1900	4	4.57	1.56

2"-Diameter Types

2020	S-11 (107)	4	20	5.81	2.31
2061	S-11 (107)	—	—	5.88	2.06
2062	S-11 (107)	6	20	5.88	2.06
2063	S-11 (107)	—	—	5.83	2.06
4459	S-20 (110)	30	300	6.31	2.06
4463	S-20 (110)	4.8	12	5.81	2.31
4507	—(116)	0.2	50	5.71	2.10
4518	—(115)	0.24	7	5.81	2.31
4523	—(115)	0.5	13	5.81	2.31
5819	S-11 (107)	6	20	5.81	2.31
6217	S-10 (106)	140	20	5.81	2.31
6342A	S-11 (107)	4	20	5.81	2.31
6655A	S-11 (107)	6	20	5.81	2.31
6810A	S-11 (107)	1000	2000	7.5	2.38
6903	S-13 (108)	10	20	6-9/16	2-5/16

Head-On Types (cont'd)

2"-Diameter Types (cont'd)

Type	Spectral Response*	Characteristics at 22° C: Anode Dark at Current nA	Characteristics at 22° C: Anode Luminous Sensitivity A/lm	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter In
7265	S-20 (110)	50	1000	7.5	2.38
7326	S-20 (110)	3	20	6.78	2.38
7746	S-11 (107)	16	20	6.12	2.31
7850	S-11 (107)	64	160	6.31	2.06
8053	S-11 (107)	4	9	5.81	2.31
8575	—(116)	1	200	5.71	2.10
8664	—(120)	1	7.5	4.00	2.06
8664/V1	—(120)	1	7.5	6.99	2.35
8850	—(116)	0.6	200	5.71	2.10
8851	—(116)	0.6	200	5.71	2.10
8852	—(119)	10	100	5.71	2.10
8853	—(119)	10	100	5.71	2.10

3"-Diameter Types

2064B	S-11 (107)	4	9	6.23	3.06
4464	S-20 (110)	4.8	12	6.31	3.06
4521	—(122)	2	7.5	5.86	3.05
4524	—(115)	1	13	6.31	3.06
8054	S-11 (107)	4	9	6.31	3.06

5"-Diameter Types

2065	S-11 (107)	—	—	7.37	5.31
4456	S-20 (110)	—	—	7.69	5.31
4465	S-20 (110)	4.8	12	7.69	5.31
4522	—(118)	60	2000	12	5.25
4525	—(115)	1.5	13	7.69	5.31
8055	S-11 (107)	4	9	7.69	5.31
8854	—(118)	60	2000	12	5.25

Ruggedized Photomultiplier Tubes

Side-On Types

1/2"-Diameter Types

8571	S-4 (102)	2	20	1.37	0.53

Head-On Types

3/4"-Diameter Types

4460	S-11 (107)	6	7.5	3.38	0.78

1-1/2"-Diameter Types

4441	S-11 (107)	16	20	3.18	1.56
4441A	S-11 (107)	16	20	3.18	1.56
4461	S-11 (107)	5	10	3.18	1.56

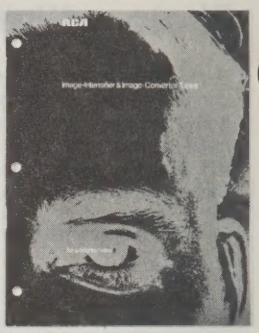
Dormer-Window Types

4526	—(111)	2	20	3.01	1.56

*For information on RCA spectral response designations, request RCA publication PIT-701B—"Typical Photocathode Spectral Response Characteristics."

Characteristics | Light Conversion Devices (cont'd)

Image Tubes | Image-Converter and Image-Intensifier Types



RCA has a broad line of image–tube designs which can be readied for rapid fabrication in a wide variety of requirements. Variants of existing types can be supplied having different phosphors and photocathodes, with or without fiber-optic input and output surfaces, and with different potting configurations and lead arrangements.

Typical Applications for Image-Converter and Image-Intensifier Systems

- Electron and Field Ion Microscopes
- Telescopes for Astronomy
- Night Viewing Devices
- Near-Infrared Laser Detectors
- Spectroscopy
- Image Conversion
- Surveillance
- X-Ray Intensification
- Medical Research
- Nuclear Track Photography
- Electro-Optical Tracking
- High-Speed Light Shutter for Photography
- Radiology
- Electron Microscopy

Image-Converter Tubes

Infrared Sensitive Tubes

Single-Stage Electrostatic-Focus Types

Type	Phosphor	Magnification Factor	Min. Cathode Resolution Line Pairs/mm	Maximum Dimensions	
				Overall Length In	Diameter In
6381	P20	0.58	25	4-25/32	2.115
6914	P20	0.76	50	2.975	1.905
6914A	P20	0.76	50	2.975	1.905
6929	P20	0.75	50	2.335	1.375

Photographic-Shutter Types

Type	Phosphor	Magnification Factor	Min. Cathode Resolution Line Pairs/mm	Maximum Dimensions	
				Overall Length In	Diameter In
4449A	P11	0.74	25	9.93	4.04

For more information, refer to product line catalogue; RCA Image-Intensifier and Image Converter Tubes, PIT-702C–36 pages. Provides tabulated data and initial selection guides on image tubes.

Image-Intensifier Tubes

Fiber-Optic Types

18-mm Tubes

Type	No. of Stages	Min. Cathode Resolution lp/mm	Max. ESBI lm/cm^2	Maximum Dimensions	
				Overall Length In	Diameter In
4550	3	32	2×10^{-11}	5.93	2.08
4551*	3	32	2×10^{-11}	5.93	2.08
8858	3	32	2×10^{-11}	5.93	2.08
8857/V1	1	64	2×10^{-11}	1.926	3.05
8857/V2	1	64	2×10^{-10}	1.926	3.05

25-mm Tubes

4803*	3	28	2×10^{-11}	7.63	2.75
8585/V1	1	57	2×10^{-11}	2.401	1.90
8585/V2	1	57	2×10^{-10}	2.401	1.90
8586	1	57	2×10^{-11}	7.63	2.75

40-mm Tubes

4549*	3	25	2×10^{-11}	12.028	3.747
8606	3	25	2×10^{-11}	12.028	3.747
8605/V1	1	57	2×10^{-11}	3.705	1.48
8605/V2	1	57	2×10^{-10}	3.705	1.48

*Feature Automatic Brightness Control (ABC)

Photodiodes

Vacuum Photodiodes have excellent response to pulsed light, good stability, and are characterized by photocurrent response which is linear over a wide range of incident light level. These tubes are frequently used for light comparison measurements.

Typical Applications: ■ Photometry ■ Colorimetry ■ Spectrophotometry ■ Industrial Controls ■ Facsimile

Gas Photodiodes have a response to pulsed light that covers the audio frequency range. They are 3 to 5 times more sensitive than vacuum photodiodes.

Typical Applications: ■ Industrial Controls ■ Sound Reproduction

Vacuum Photodiodes

Side-On Types

Type	Spectral Response	Characteristics		Maximum Dimensions	
		Luminous Sensitivity (2870° K) μA/lm	Max. Anode Dark Current at 22° C μA	Overall Length In	Diameter In
1P39	S-4	52	0.005	3-1/16	1-9/32
917	S-1	20	0.005	4-7/16	1-1/8
919	S-1	20	0.005	4-7/16	1-1/8
925	S-1	20	0.0125	2-5/8	1-9/32
929	S-4	52	0.0125	3-1/16	1-9/32
934	S-4	30	0.005	2-13/32	0.669
935	S-5	35	0.0005	4-1/4	1-9/32
2022	S-1	Same as 925 except has a non-hygroscopic base		2-5/8	1-9/32
5653	S-4	45	0.25	3-1/16	1-9/32
6570	S-1	35	0.013	4-7/16	1-1/8

Side-On Cartridge Types

922	S-1	20	0.005	1-23/32	0.890
926	S-3	6.5	0.005	1-23/32	0.890

Side-On Composite Anode Types

5652	S-4	45	0.01	2-7/8	1-9/32

For more information refer to the product line catalog PIT-700B shown on page 9.

Head-On Types

Type	Spectral Response	Characteristics		Maximum Dimensions	
		Luminous Sensitivity (2870° K) μA/lm	Max. Gas Amplification Factor	Overall Length In	Diameter In
1P42	S-9	37	0.005	1-13/32	1/4

Gas Photodiodes

Side-On Types

Type	Spectral Response	Characteristics		Maximum Dimensions	
		Luminous Sensitivity (2870° K) μA/lm	Max. Gas Amplification Factor	Overall Length In	Diameter In
1P29	S-3	40	9.0	4-1/8	1-1/8
1P37	S-4	135	5.5	4-1/8	1-1/8
1P40	S-1	135	10.0	3-1/16	1-9/32
868	S-1	90	8.0	4-1/8	1-1/8
918	S-1	150	10.5	4-1/8	1-1/8
923	S-1	135	10.0	3-9/16	1-3/16
927	S-1	125	10.0	2-13/32	0.669
930	S-1	135	10.0	3-1/16	1-9/32
4409	S-4	135	5.5	3-3/16	1-9/32
5581	S-4	135	5.5	3-1/16	1-9/32
5583	S-4	135	5.5	2-13/32	0.669
6405/1640	S-1	35	2.5	4-7/16	1-1/8
6953	S-1	200	10.0	3-3/16	1-9/32

Side-On Cartridge Types

921	S-1	135	10.0	1-23/32	0.890
5582	S-4	120	5.5	1-23/32	0.890

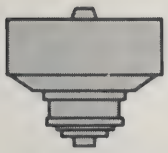
Side-On Twin-Unit Types

920	S-1	100	9.0	4	1-3/16

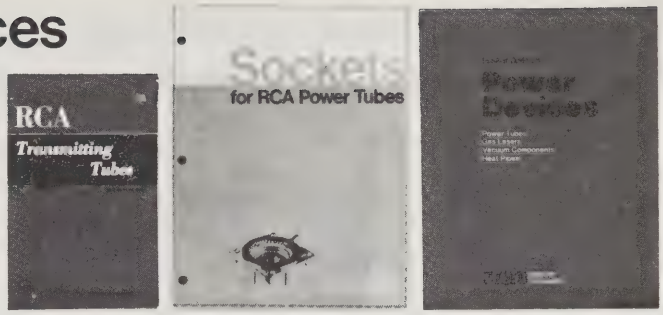
Head-On Types

1P41	S-1	90	8.5	2-1/16	13/16

Characteristics | Power Devices



For more information on power devices, refer to the following publications: Product Guide for RCA Power Tubes, PWR-506C; RCA Transmitting Tube Manual, TT-5 (provides theory, construction, installation, and operation); and Sockets for RCA Power Tubes, PWR-532.



Vacuum Power Tubes | Gridded Types

Vacuum Power Tubes are designed for CW and RF pulse applications and for modulator and regulator service in communication and industrial systems. Types are available providing up to nearly a MW of CW power (over 10 MW of RF pulse power) at frequencies up to 3000 MHz. Variants are also available. CERMOLOX types are designed for the most critical applications.

Types for CW Applications

CERMOLOX® Tubes

Forced-Air-Cooled Types

Type	Filament (f) or Heater Volts/A	Typical Operation – Class C Telegraphy Service (CCS)		Maximum Dimensions	
		Frequency MHz	Power Output Watts	Overall Length In	Diameter or Radius (r) In
4628	4.5/125	30	5000	5.65	6.17
4629	5.5/17.3	For existing equipment		3.34	3.75
4631	26.5/0.54	400	80	2.27	1.64
4632	5.5/31	890	2300	4.70	4.57
4635	22/12.6	400	2500	6-1/2	6-1/8
4651	5.5/17.3	400	1500	3.34	3.75
4656	5.5/31	890	2300	4.70	4.57
4661	5.5/17.3	400	1160	3.86	3.73
6816	6.3/2.1	1215	40	1.930	1.265
6884	26.5/0.52	1215	40	1.930	1.265
7213	5.5/17.3	600	1350	3.34	3.75
7457	6.3/3.2	1215	40	1.930	1.265
7650	6.3/7.5	400	800	2.40	2.09
8226	6.3/3.2	400	340	2.71	1.64
8437	8.5/88	400	10,000	6.188	6.170
8501	4.5/125	900	5500	5.65	6.17
8596	6.3/3.2	1215	40	2.036	1.327
8791/V1	6.3/7.5	30	500	2.38	2.50
8792/V1	5.3/17.3	108	1250	3.25	3.75
8793	5.7/125	108	10,000	4-7/8	4-1/2
8794	5.7/125	108	15,000	5-1/2	6-1/8
8806	5.7/125	108	15,000	5-1/2	6-1/8
8807	9.5/145	108	20,000	7.34	7.10
8890	5.7/125	108	10,000	5.01	4.57
8891	9.5/153	400	20,000	7.10	8.28

Conduction-Cooled Types

4637	6.3/3.2	400	340	2-3/4	1-1/8
7801	12.6/0.5	400	27	1.19	0.736
7842	6.3/3.2	1215	40	1.930	1.119
7843	26.5/0.52	1215	40	1.930	1.119

Liquid-Cooled Types

4636	6.3/3.5	187	365	2-5/8	2-1/4

Beam Power Tubes

Natural-Cooled Types

2E24	6.3f/0.65	125	20	3-21/32	1-5/16
2E26	6.3/0.8	125	20	3-21/32	1-5/16
3CX3000A7	7.5/51	75	11,000 Audio (2 tubes)	8.59	4.15
3CX10000A7	7.5/100	110	17,800 SSB	8.75	7.05
4E27A/5-125B	5f/7.5	For existing equipment		6-3/16	2-3/4
807	6.3/0.9	60	40	5-3/4	2-1/16
813	10f/5	30	275	7-1/2	2-9/16
828	10f/3.25	For existing equipment		7-11/16	2-1/16
1624	2.5f/2	For existing equipment		5-3/4	2-1/16
1625	12.6/0.45	For existing equipment		5-3/4	2-1/16
4604	6.3f/0.65	175	30	3-13/16	1-21/32
4652/8042	1.6/3.2	60	25	3-13/16	1-21/32
6146A	6.3/1.25	60	52	3-13/16	1-21/32
6146B/8298A	6.3/1.125	60	63	3-13/16	1-21/32

Types for CW Applications (cont'd)

Beam Power Tubes (cont'd.)

Natural-Cooled Types (cont'd.)

Type	Filament (f) or Heater Volts/A	Typical Operation – Class C Telegraphy Service (CCS)		Maximum Dimensions	
		Frequency MHz	Power Output Watts	Overall Length In	Diameter or Radius (r) In
6146W	6.3/1.25	60	52	3-13/16	1-21/32
6159B	26.5/0.3	60	63	3-13/16	1-21/32
6159W	26.5/0.3	60	52	3-13/16	1-21/32
6883	12.6/0.625	60	52	3-13/16	1-21/32
6883B/8032A/8552	12.6/0.562	60	85	3-13/16	1-21/32
8032	13.5/0.585	60	52	3-13/16	1-21/32

Forced-Air-Cooled Types

4-125A/4D21	5f/6.5	For existing equipment		5-11/16	2-7/8
4-250A/5D22	5f/14.5	For existing equipment		6-3/8	3-9/16
4CX250B	6.0/2.6	175	400	2.46	1.64
4X150A	6/2.6	500	140	2.47	1.65
4X500A	5f/12.2 to 13.7	For existing equipment		4-3/4	2-5/8
827R	7.5f/25	For existing equipment		6-3/8	4-11/16r
4624	6.3/3.5	890	300	2.19	2.26
4662	13.5/1.3	470	300	2.26	1.64
6155	5f/6.5	For existing equipment		5-5/64	2-7/16
6166	5f/168	For existing equipment		11.63	6.38
6166A/7007	5f/168	216	10,000	11.50	6.38
6181	120 max./1.6	900	600	7-1/4	5-1/32
7094	6.3/2.85	60	255	5	2.56
7271	13.5/1.25	For existing equipment		4.73	2.06
8121	13.5/1.3	470	235	2.20	1.48
8122	13.5/1.3	470	300	2.26	1.64
8165/4-65A	6/3.2 to 3.8	For existing equipment		4-3/16	2-3/8
8166/4-1000A	7.5f/20 to 22.7	For existing equipment		9-5/8	5-1/4
8167/4CX300A	6.0/3.2	For existing equipment		2.5	1.65
8168/4CX1000A	6.0/8.1 to 9.9	For existing equipment		4.8	3.37
8170/4CX5000A	7.5/73 to 78	For existing equipment		9.125	4.938
8171/4CX10000D	7.5/78	For existing equipment		9.13	7.05
8281/4CX15000A	6.3/152 to 168	For existing equipment		9.44	7.58
8438/4-400A	5/14.5	For existing equipment		6-3/8	3-9/16

Liquid-Cooled Types

4647	3.9/800	30	250k	18.50	11.65
4648	3.9/1600	30	500k	18.50	11.65
6448	1.35f/1000	900	11,000	8.02	11.38
6806	1.35/1000	900	13,500	8.02	11.38

Conduction-Cooled Types

8072	13.5/1.3	470	85	2.26	1.44
8462	2.9f/4.6	470	85	2.26	1.44
8828	26.5/0.68	50	100	2.24	1.38r

Twin-Beam Power Tubes

Natural-Cooled Types

829B	6.3/2.25 12.6/1.125	200	70	4-5/16	2-3/8
832A	6.3/1.6 12.6/0.8	200	26	3-5/16	2-5/16
6524	6.3/1.25	100	46	3-9/16	1-11/16
6850	12.6/0.625	100	46	3-9/16	1-11/16

Forced-Air-Cooled Type

829B	6.3/2.25 12.6/1.125	200	90	4-5/16	2-3/8

Characteristics | Power Devices (cont'd)

Vacuum Power Tubes | Gridded Types (cont'd)

Types for CW Applications (cont'd)

Triode Tubes

Natural-Cooled Types

Type	Filament (f) or Heater Volts/A	Typical Operation—Class C Telegraphy Service (CCS)		Maximum Dimensions	
		Frequency MHz	Power Output Watts	Overall Length In	Diameter or Radius (r) In
810	10f/4.5	30	375	8-3/4	2-1/4r
811A	6.3f/4	30	135	6-15/32	2-7/16
812A	6.3f/4	30	130	6-15/32	2-7/16
833A	10f/10	30	1000	8-13/16	4-19/32
845	10f/3.25	For existing equipment		7-7/8	2-5/16
5556	4.5f/1.1	For existing equipment		4-1/2	1-5/8
8000	10f/4.5	30	375	8-3/4	2-1/4r
8005	10f/3.25	60	170	6-11/16	2-7/16

Liquid-Cooled Types

892	22f/60	For existing equipment	20-7/8	6-15/32r
5770	11f/285	For existing equipment	24-1/2	9-1/2
5771	7.5f/170	For existing equipment	11-5/16	7

Forced-Air-Cooled Types

9C25	6f/285	For existing equipment		17-3/8	14-1/4
833A	10f/10	20	1440	8-13/16	4-19/32
891R	22f/60	For existing equipment		22	6-15/32r
892R	22f/60	For existing equipment		22	6-15/32r
5671	11f/285	1.6	70,000	25	17
5713	3.3/11.5	For existing equipment		4-7/8	2-1/16
5762	12.6f/29	30	7000	7-1/8	4-11/16
5786	11f/12.5	For existing equipment		9-5/8	2.895
6161	6.3/3.4	900	180	3-13/32	1.76
8239/ 3X3000F1	7.5/49 to 54	For existing equipment		10.539	4.156

Shielded-Grid Beam Triode Tubes

Liquid-Cooled Types

6949	7.3 to 7.8f / 1120 to 1160	0.425	500,000	40	10.06
6949/V1	7.3 to 7.8f / 1120 to 1160	0.425	500,000	40	10.06

Lighthouse Triode Tubes

Natural-Cooled Types

2C43	6.3/0.9	For existing equipment	2.6875	1.312

Forced-Air-Cooled Types:

2C39A	6.3/1	Ceramic-Metal Construction For existing equipment	2-3/4	1-17/64
2C39A/V1	6.3/1	Glass-Metal Construction For existing equipment	2-3/4	1-17/64
2C39WA	6.0/1.0	Refer to MIL-E-1/778E	2.701	1.264
6897	6.3/1.03	For existing equipment	2-3/4	1-17/64

Tetrodes Tubes

Forced-Air Cooled Types

6076	6.3f/32.5	For existing equipment	6.75	3.625
6076A	6.3/33.5	220 3000 (Ceramic-Metal Construction)	6.75	3.625

Types for RF Pulse Applications

Beam Power Tubes

Liquid-Cooled Types

Type	Filament (f) or Heater Volts/A	Typical Operation—Plate Pulsed Service		Maximum Dimensions	
		Frequency MHz	Peak Power Output kW	Overall Length In	Diameter In
2041	1.35f/1000	450	300	8.93	11.25
4616	0.95f/495	425	2000	8.93	11.25
4666	0.958/495	425	2000	8.93	11.25
6952	0.95f/495	425	2000	8.93	11.25
8587	0.95f/495	425	2000	9.50	11.25

Types for RF Pulse Applications (cont'd)

Triode Tubes

Liquid-Cooled Types

Type	Filament (f) or Heater Volts/A	Typical Operation — Plate Pulsed Service		Maximum Dimensions	
		Frequency MHz	Peak Power Output kW	Overall Length In	Diameter In
2054	3.1 to 4.5f / 6600 to 7200	440	5000	17.00	14.100
7835	3.1 to 4.2f / 6600	250	10,000	17	24

Forced-Air-Cooled Types

5946	6.3/3.4	1250	14	3-13/32	1.76

Shielded-Grid Beam Triode Tubes

Liquid-Cooled Types

6949	7.3 to 7.8f / 1120 to 1160	0.425	500	40	10.06
6950	7.3 to 7.8f / 1120 to 1160	200	1500	37.24	20.50

CERMOLOX® Tubes

Forced-Air-Cooled Types

4621	6.3/3.2	1215	17	2.13	1.265
7214	5.5/17.3	1215	65	3.34	3.75
7649	6.3/3.2	1215	9	1.96	1.27
7651	6.3/7.5	1215	39	2.40	2.09
8184	22/12.6	500 (max.)	—	7.24	5.56

Modulator Tube Applications

Beam Power Tubes

Natural-Cooled Types

Type	Plate Dissipation Watts	Peak Plate Volts	Peak Plate Amperes	Maximum Dimensions	
				Overall Length In	Diameter In
6293	4	2000	3	3-13/16	1-23/32

Conduction-Cooled Types

4626	1500	17,000	30	3-3/8	3
4630	7500	22 kV	40	6.17	3.92
4634	600	7000	8	2-1/2	1-3/4
4638	1500	20,000	30	3-1/4	3

Twin-Beam Power Tubes

Natural-Cooled Types

3E29	15	5750	10	4-5/16	2-3/8

Regulator Tube Applications

CERMOLOX® Tubes

Forced-Air-Cooled Types

Type	Plate Dissipation Watts	Peak DC Plate Volts	DC Plate mA	Maximum Dimensions	
				Overall Length In	Diameter In
4600A	1750	3500	1000	3.405	3.76
4614	400	2500	500	2.40	2.09

Characteristics | Power Devices (cont'd)

Vacuum Power Tubes (cont'd) | Klystrons and Magnetrons

Klystrons

Natural-Cooled Types

Type	Filament (f) or Heater Volts/A	Frequency MHz	Approx. Power Output Watts	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter or Radius (f) In
2K26	Typical operation as CW oscillator: Frequency-6600 MHz, Power Output-100 mW			3.5	1-55/64 r

Forced-Air-Cooled Types

4658	6.5/7.6	4.4 - 5.0	1.2 kW	15.5	10.5
8766	6.5/7.6	4.4 - 5.0	1.2 kW	15.5	10.5
8811	6.5/7.6	4.4 - 5.0	1.4 kW	15.5	10.5

Large Power Amplifier Service

Liquid-Cooled Types

8568	15/14	Typical operation as pulsed oscillator: Frequency - 2856 MHz, Peak Power Output - 21 MW		49.7	14.25
8824	6/16.4	470 - 566	30,000	58.2	19.0
8825	6/16.4	566 - 698	30,000	53.0	19.0
8826	6/16.4	698 - 890	30,000	51.0	19.0
8840	17/15.5	2856	30,000,000	57.6	20.0

Magnetrons

Fixed Frequency, Pulsed-Oscillator Type for Missile Guidance Systems, Weather and Other Radar and Beacons

Forced-Air Cooled Types

Type	Frequency GHz	Min. Peak Power Output kW	Duty Factor	Maximum Dimensions In
6521	5.4 ± 0.02	75	0.001	7-1/8 x 7-7/32 x 4-1/2
6521/R	5.4 ± 0.02	75	0.001	7-1/8 x 7-7/32 x 4-1/2

Detailed data for type 6521 is given in technical bulletin only.

for RF Power Source in Industrial Processing Applications

Liquid-Cooled Types

Type	Fialment (f) or Heater Volts/A	Typical CW Oscillator Service: Frequency MHz	Typical CW Oscillator Service: Approx. Power Output Watts	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter In
8684	12.5f/115	915	30,000	18.25	4.94

Power Tubes for High Power Control | Ignitrons, Rectifiers, Thyratrons

Ignitrons (Liquid Cooled)

Resistance-Welding Control Service

Type	Resistance-Welding Control Service: Demand Power kVA	Resistance-Welding Control Service: Peak Amperes	Average Amperes	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter or Radius (r) In
5550	50	282	9	9-13/16	2-1/2
	150	846	4.86		
	100	564	22.4		
	300	1692	12.1		
5551A	200	1130	56	13	2-7/8 r
	600	3400	30.2		
	200	466	56		
	600	1410	30.2		
5552A	400	2260	140	14	3-5/8 r
	1200	6800	75.6		
	400	945	140		
	1200	2830	75.6		

Intermittent Rectifier Service and Frequency — Changer Service

Type	Peak Forward Volts	Peak Amperes	Average Amperes	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter or Radius (r) In
5551A	500	700	40 @ 6 μs	13	2-7/8 r
	1200	135	22.5 @ 10 μs		
	1200	600	5 @ 10 μs		
	1500	108	18 @ 10 μs		
	1500	480	4 @ 10 μs		
5552A	500	1600	100 @ 6 μs	14	3-5/8 r

Welding-Capacitor Discharge Service

5550	3000	500	15	9-13/16	2-1/2
	3000	500	3		
	6000	500	8		
	6000	500	2.5		

Rectifiers

Half-Wave Vacuum Types

Type	Peak Inverse Anode Volts	Peak Anode Amperes	Average Anode Amperes	Maximum Dimensions: Overall Length In	Maximum Dimensions: Diameter In
2X2A	12,500	0.06	0.0075	4-17/32	1-9/16
579B	20,000	0.27	0.025	7-7/16	2-1/8
836	5000	1.0	0.25	6-9/16	2-7/16
1616	6000	0.8	0.13	6-13/16	2-1/16
5825	60,000	0.04	0.002	5-27/32	2-1/16
8013A	40,000	0.15	0.02	6-1/16	2-1/16
8020	40,000	1.5	0.1	8	2-5/16

Half-Wave Gas Types

3B28	10,000	1	0.25	6.15	2-1/16
	5000	2	0.5		

Half-Wave Mercury-Vapor Types

575A	15,000	6	1.5	11-1/16	3-1/8
	10,000	7	1.75		
615/7018	2000	10	2.5	6-3/8	2-1/16
673	Refer to 575A			11-3/8	3-1/8
816	7500	0.5	0.125	4-11/16	1-9/16
857B	22,000	40	10	19-7/8	7-1/8
	10,000	40	10		
866A	10,000	1	0.25	6-9/16	2-7/16
	5000	1	0.25		
	2500	2	0.5		
869B	20,000	10	2.5	14-7/16	5-1/8
	15,000	10	2.5		
872A	10,000	5	1.25	8-1/2	2-5/16
	5000	5	1.25		
5558	5000	15	2.5	7	1-9/16
	2000	15	2.5		
5561	3000	40	6.4	11-1/4	3-13/16
	10,000	16	4.0		
6894	20,000	8.3	1.8	10-17/32	2-5/8
	15,000	8.3	1.8		
	10,000	8.3	1.8		
6895	Refer to 6894			10-13/32	2-5/8
8008	Refer to 872A			8-3/4	2-5/16

Full Wave Types

604/7014	900	10	2.5	7-1/2	2-1/16

Characteristics | Power Devices (cont'd)

Power Tubes for High Power Control | Ignitrons, Rectifiers, Thyratrons (cont'd)

Thyratrons

Gas Triode Types

Type	Peak Forward Anode Volts	Peak Anode or Cathode (k) Amperes	Average Anode Amperes	Maximum Dimensions Overall Length In	Maximum Dimensions Diameter In
6130/3C45	3000	35	0.045	5-3/16	1-9/16
C1K/6014	1000	8	1	4-5/16	1-9/16
C3J/5632	900	30	2.5	6	1-5/8
C3JA/5684	1000	30	2.5	6	1-5/8
C3JL	900	30	2.5	6-3/4	2-3/16
C6J/5C21	750	77	6.4	9-1/2	2-1/16
C6JA/5685	1000	77	6.4	9-1/2	2-1/32
C16J/5665	1000	100	18	10-1/2	2-9/16

Mercury-Vapor Triode Types

3C23	1250	6	1.5	6-1/8	2-1/16
627	2500	2.5	0.64	6-5/8	2-1/16
676	750	77 k	2.5	11-3/4	3-13/16
677	10,000	16 k	4	11-11/16	3-13/16
710/6011	1500	30 k	2.5	6-1/4	1-5/8
714/7021	1250	3	1.0	6-1/8	2-1/16

Thyratrons (cont'd)

Mercury Vapor Types

Type	Peak Forward Anode Volts	Peak Anode or Cathode (k) Amperes	Average Anode Amperes	Maximum Dimensions Overall Length In	Maximum Dimensions Diameter or Radius (r) In
760/6858	1500	77 k	6.4	9-1/2	2-9/16
5557	5000	1	0.25	6-1/8	2-1/16
	2500	2	0.5		
	1250	3	1.0		
5559	1000	15 k	2.5	7-1/4	3
5563A	15,000	10	1.8	10-17/32	2-5/8

Gas Tetrode Types

3D22A	650	8	0.8	4-5/8	2-3/8

Mercury-Vapor Tetrode Types

105	10,000	16	4	11-1/4	2-1/2 r
632B	1500	30	2.5	8-5/16	1-3/4 r
672A	2500	40 k	3.2	8-3/8	2-5/16
5560	1000	15 k	2.5	7-15/16	2-1/4 r

Characteristics | Digital Display Devices

Numitron Devices | Segmented Incandescent Types

DR2000, DR2100, and DR2100V1 — 0 through 9

DR2010, DR2110, and DR2110V1 — 0 through 9 with left hand decimal point

DR2115 and DR2115V1 — 0 through 9 with right hand decimal point

DR2020, DR2120, and DR2120V1 — Plus-Minus sign and numeral I

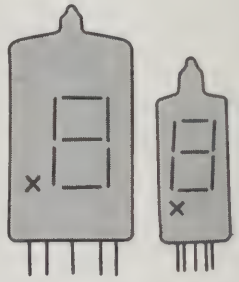
DR2030, DR2130, and DR2130V1 — Plus-Minus sign

Features

- high brightness — fully adjustable
- low voltage operation
- high contrast — segmented digits viewed against a dark background
- compatible with IC Decoder/Drivers such as the RCA CD2500E family
- high reliability — rugged construction
- wide-spectrum light emission permits unlimited filter selection
- wide viewing angle
- void of "clutter"
- solderable base pins permits direct PC board mounting
- DR2000 series fits popular low cost 9-pin miniature socket
- DR2100 series fits popular TO-5 style, 10-pin socket
- DR2100V1 series with formed leads facilitates direct PC-board mounting

Nunitron types DR2000 series, DR2100 series, and DR2100V1 series are low voltage incandescent-type digital display devices which provide sharp high-brightness numeric* displays ideally suited for most types of digital-readout systems.

*Individual segments may be addressed to provide symbol or alphabetic output such as the letters A, C, E, F, H, J, L, P, & U.



Characteristics

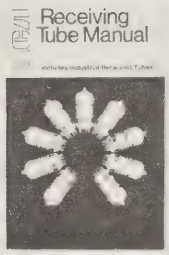
	DR2000 Series		DR2100 DR2100V1 Series	
Electrical DC segmented voltage = 4.5 V unless otherwise specified				
Recommended dc Segment Voltage Range	3.5 to 5.0	V	3.5 to 5.0	V
Segment Current	24	mA	24	mA
Life Expectancy	100,000 h	min.	100,000 h	min.
Visual DC segment voltage = 4.5 V				
Viewing Angle (included angle)	140°		120°	
Segment Luminance	7000 fL	typ.	7000 fL	typ.
Response Times:				
ascent (to visibility)	15 ms	typ.	15 ms	typ.
descent (to 50% of luminance)	<20 ms		<20 ms	
Maximum Segment Deflection From a Straight Line	0.005	in.	0.005	in.

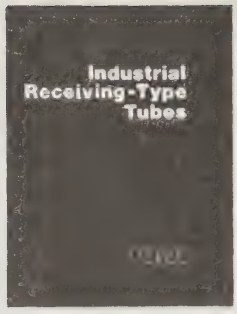
Mechanical

	DR2000 Series	DR2100 Series	DR2100V1 Series
Mounting Position	Any	Any	Any
Maximum Overall Length	1.875 in.	1.660 in	1.705 in.
Maximum Seated Length	1.625 in	1.450 in.	1.450
Maximum Diameter	0.785 in	0.485 in.	0.485 in.
Base	9-pin miniature	9-pin, 0.230 in. pin circle	9-pin, 0.380 in. pin circle

Characteristics | Receiving-Type Tubes

For more information, refer to the product line catalog and manual: Industrial Receiving-Type Tubes, RIT-104G – 24 pages. Provides tabulated data, prototype chart, application guide, socket information, and replacement information. RCA Receiving Tube Manual, RC-28. Provides theory, characteristics, applications, and installation information.





for Mobile Communications

Types Operating from Nominal-12-V Storage-Battery Systems

Type	E_f/I_f V/mA	Max. Rating P_b W	g_m μmho	Base	Max. Overall Length In
7054	13.5/275	5	11500	9-Pin Min.	2-5/8
7055	13.5/155	–	–	7-Pin Min.	1-3/4
7056	13.5/150	2	6200	7-Pin Min.	2-1/8
7057	13.5/180	2.2	6800	9-Pin Min.	2-3/16
7058	13.5/155	1	1650	9-Pin Min.	2-3/16
7059	13.5/195	2.5 T 2.8 P	8500 T 5200 P	9-Pin Min.	2-3/16
7060	13.5/280	2.5 T 3 P	4900 T 7000 P	9-Pin Min.	2-3/16
7061	13.5/210	9	4200	9-Pin Min.	2-5/8
7167	13.5/90	2	8000	7-Pin Min.	2-1/8
7258	13.5/210	2.8 T 2.3 P	4500 T 7800 P	9-Pin Min.	2-3/16
7551	13.5/360	10	5300	9-Pin Min.	2-5/8
7724/ 14GT8	13.5/150	1.1	1000	9-Pin Min.	2-3/16
7898	13.5/150	2.75	5500	9-Pin Min.	2-3/16
8077/ 7054	13.5/275	0.575	11500	9-Pin Min.	2-3/16
8106	13.5/250	6	9000	9-Pin Min.	2-3/16

T - Triode Unit; P = Pentode Unit

Types Operating from Nominal-6-V Storage-Battery Systems

6360	6.3/820 12.6/410	14.0	3300	9-Pin Min.	3-1/16
6360A	6.3/820 12.6/410	14.0	3300	9-Pin Min.	3-1/16
6660/ 6BA6	6.3/300	3.3	4400	7-Pin Min.	2-1/8
6661/ 6BH6	6.3/150	3.3	4600	7-Pin Min.	2-1/8
6662/ 6BJ6	6.3/150	3.3	3600	7-Pin Min.	2-1/8
6663/ 6AL5	6.3/300	For added data, see page 17		7-Pin Min.	1-3/4
6664/ 6AB4	6.3/150	2.9	10900	7-Pin Min.	2-1/8
6669/ 6AQ5A	6.3/450	12	4100	7-Pin Min.	2-5/8
6676/ 6CB6A	6.3/300	2.3	8000	7-Pin Min.	2-1/8
6677/ 6CL6	6.3/650	8.5	11000	9-Pin Min.	2-5/8
6678/ 6U8A	6.3/450	3 T 3 P	8500 T 5200 P	9-Pin Min.	2-3/16
6679/ 12AT7	12.6/150 6.3/300	2.8	5500	9-Pin Min.	2-3/16

Types Operating from Nominal-6-V Storage-Battery Systems (cont'd.)

Type	E_f/I_f V/mA	Max. Rating P_b W	g_m μmho	Base	Max. Overall Length In
6680/ 12AU7A	12.6/150 6.3/300	3	2200	9-Pin Min.	2-3/16
6881/ 12AX7A	12.6/150 6.3/300	1.1	1600	9-Pin Min.	2-3/16
7717/ 6CY5	6.3/200	–	8000	9-Pin Min.	2-1/8
7905	6.3/650	10	6700	9-Pin Min.	2-5/8

Types Operating from Nominal-24-V Storage-Battery Systems

26A6	26.5/70	3.3	4000	7-Pin Min.	2-1/8
26A7GT	26.5/600	2.2	5700	Octal	3-13/16
26C6	26.5/70	2.75	1900	7-Pin Min.	2-1/8
26D6	26.5/70	1.1	–	7-Pin Min.	2-1/8
6082	26.5/600	13	7000	Octal	4-1/16

Filamentary-Cathode Types Operating from Dry-Cell Battery Supplies

1L4	1.4/50	–	1025	7-Pin Min.	2-1/8
3A4	2.8/100 1.4/200	2	1900	7-Pin Min.	2-1/8
3A5	2.8/110 1.4/220	1	1800	7-Pin Min.	2-1/8
3B4WA	For data, refer to Military Specification				–
1619	2.5/2000	15	4500	Octal	4-5/16
5642	1.25/200	For added data, see page 17		Submin.	2.380
5672	1.25/50	0.065	650	Submin.	1-1/2
5678	1.25/50	–	1150	Submin.	1-1/2

Quick-Heating-Filament Types (For Equipment Requiring Essentially Instant "Off-to-On" Action)

3B4WA	For data, refer to Military Specification				–
1619	2.5/2000	15	4500	Octal	4-5/16
7905	6.3/650	10	6700	9-Pin Min.	2-5/8

Beam-Deflection Type Having 2 Plates

7360	6.3/350	1.5	5400	9-Pin Min.	2-5/8

for Fixed Station Communications

RF Power Amplifiers, Oscillators, or Frequency Multipliers – Class C

Type	E_f/I_f V/mA	Max. Rating P_b W	g_m μmho	Base	Max. Overall Length In
3A4	1.4/200	2	1900	7-Pin Min.	2-1/8
3B4WA	For data, refer to Military Specification				–
1613	6.3/700	10	2500	Octal	3-1/4
1614	6.3/900	21	6050	Octal	4-5/16
1619	2.5/2000	15	4500	Octal	4-5/16
5763	6/750	12	7000	9-Pin Min.	2-5/8

RF Power Amplifiers, Oscillators, or Frequency Multipliers – Class C (cont'd.)

Type	E_f/I_f V/mA	Max. Rating P_b W	g_m μmho	Base	Max. Overall Length In
6360	6.3/820	5	3300	9-Pin Min.	3-1/16
6360A	6.3/820	5	3300	9-Pin Min.	3-1/16
6417	12.6/375	12	7000	9-Pin Min.	2-5/8
7558	6.3/800	10	5300	9-Pin Min.	2-5/8
8627 Nuvistor	6.3/150	2.5	13000	5-Pin Nuvistor	0.985

Characteristics | Receiving-Type Tubes (cont'd)

for Fixed Station Communications (cont'd)

Premium tube types are shown on gray background. These types are subjected to more rigorous tests and controls than other types.

RF Power Amplifiers, Oscillators, or Frequency Multipliers — Class C (cont'd.)

Type	E_f/I_f V/mA	Max. Rating P_b W	g_m μmho	Base	Max. Overall Length In
8203 Nuvistor	6.3/160	1.5	6000	5-Pin Nuvistor	0.800
8808 Nuvistor	6.3/340	6[a]	18000	6-Pin Nuvistor	0.985

AF Power Amplifiers or Modulators — Classes A_1, AB_1, AB_2, or B

3A4	2.8/100 1.4/200	2	1900	7-Pin Min.	2-1/8
6AK6	6.3/150	2.75	2300	7-Pin Min.	2-1/8
6AN5	6.3/450	4.2	8000	7-Pin Min.	2-1/8
12A6	12.6/150	7.5	3000	Octal	3-1/4
1614	6.3/900	21	6050	Octal	4-5/16
1619	2.5/2000	15	4500	Octal	4-5/16
1621	6.3/700	8.3	2500	Octal	3-1/4
1622	6.3/900	13.8	6000	Octal	4-5/16
1635	6.3/600	3	—	Octal	3-5/16
5824	25/300	12.5	5000	Octal	3-5/16
5881	6.3/900	23	5200	Octal	3-15/32
6360	12.6/410 6.3/820	7	3300	9-Pin Min.	3-1/16
6360A	12.6/410 6.3/820	7	3300	9-Pin Min.	3-1/16
6550	6.3/1600	35	9000	Octal	4-3/4
6550/V1	Matched pair of 6550's				
7558	6.3/800	10	5300	9-Pin Min.	2-5/8

"Special Red" Types

5691	6.3/600	1	1600	Octal	2-7/8
5692	6.3/600	1.75	2200	Octal	2-7/8
5693	6.3/300	2	1650	Octal	2-5/8

Types for UHF Applications

6DJ8/ ECC88	6.3/365	1.8	12500	9-Pin Min.	2-3/16
6F4	6.3/225	2	5800	7-Pin Acorn	1-3/8
6J4	6.3/400	2.25	12000	7-Pin Min.	2-1/8
955	6.3/150	1.6	2200	5-Pin Acorn	1-3/8
959	1.25/50	—	600	5-Pin Acorn with 2 Leads	1-7/8
5636	6.3/150	1.1	3200	Submin.	1-3/8
5718	6.3/150	3.3	6500	Submin.	1-3/8
5840	6.3/150	1.1	5000	Submin.	1-3/8
5840W	For data, refer to Military Specification				
5896	6.3/300	For added data, see below		Submin.	—
5899	6.3/150	1.1	4500	Submin.	1-3/8
6939	12.6/300 6.3/600	6	10500	9-Pin Min.	2-5/8
7308	6.3/335	1.65	12500	9-Pin Min.	2-3/16
7586 Nuvistor	6.3/135	1	11500	5-Pin Nuvistor	0.800
7587 Nuvistor	6.3/150	2.2	10600	5-Pin Nuvistor	1.050
7895 Nuvistor	6.3/135	1	9400	5-Pin Nuvistor	0.800
8056 Nuvistor	6.3/135	0.45	7500	5-Pin Nuvistor	0.800
8058 Nuvistor	6.3/135	1.5	12400	5-Pin Nuvistor	0.985
8136	6.3/300	2.2	9800	7-Pin Min.	2-1/8
8393 Nuvistor	13.5/60	1	11500	5-Pin Nuvistor	0.800
8532	6.3/400	2.5	11000	7-Pin Min.	2-1/8
8627 Nuvistor	6.3/150	2.5	13000	5-Pin Nuvistor	0.985
8627A Nuvistor	6.3/150	2.5	13000	5-Pin Nuvistor	0.985
8808 Nuvistor	6.3/150	6[a]	18000	6-Pin Nuvistor	0.985
9001	6.3/150	0.5	1400	7-Pin Min.	1-3/4
9002	6.3/150	1.6	2200	7-Pin Min.	1-3/4
9003	6.3/150	1.7	1800	7-Pin Min.	1-3/4

[a] At plate cap seal temperature up to 150° C.

[b] For voltage-regulation applications requiring a relatively constant dc output voltage across a load independent of load and line-voltage variations.

Types for UHF Applications (cont'd.)

Type	E_f/I_f V/mA	Max. Rating P_b W	g_m μmho	Base	Max. Overall Length In
9005	6.3/165	For added data see below		5-Pin Acorn	1-3/8
9006	6.3/150	For added data, see below		7-Pin Min.	1-3/4

Rectifiers and Diodes

Power Rectifiers

Type	E_f/I_f V/A	Max. Rating $-e_{bm}$ V	Max. Rating $I_o(av)$ mA	Base	Max. Overall Length In
5R4GYB	5/2	2650	147	Octal	4-1/4
6X4W	6.3/0.6	1375	75	7-Pin Min.	2-5/8
83	5/3	1550	225	Small 4-Pin	5-3/8
2076/ 5R4GYB	5/2	2650	147	Octal	4-1/4
6202	6.3/0.6	1250	50	7-Pin Min.	2-5/8

Pulsed Rectifier (High-Voltage, Low-Current Type)

5642	1.25/0.2	10000	0.25	Submin.	2.380

Diodes for Detector or Low-Current-Rectifier Applications

5726	6.3/0.3	360	10	7-Pin Min.	1-3/4
5896	6.3/0.3	460	10	Submin.	—
6663/ 6AL5	6.3/0.3	275	10	7-Pin Min.	1-3/4
7055	13.5/0.155	350	10	7-Pin Min.	1-3/4
9005	3.6/0.165	165	1	5-Pin Acorn	1-3/8
9006	6.3/0.15	750	5	7-Pin Min.	1-3/4

Types for Stabilization of DC Voltage Supplies[b]

Voltage-Regulator (VR) Types

Type	E_b V	I_k mA	$\triangle E_b$ max. V	Base	Max. Overall Length In
OA2	150	5 to 30	6	7-Pin Min.	2-5/8
OA2WA	For data, refer to Military Specification				—
OA3	75	5 to 40	6.5	Octal	4-1/8
OA3A[c]	75	5 to 40	6.5	Octal	3-1/16
OB2	105	5 to 30	4	7-Pin Min.	2-5/8
OB2WA	For data, refer to Military Specification				—
OC2	75	5 to 30	4.5	7-Pin Min.	2.63
OC3	105	5 to 40	4	Octal	4-1/8
OC3A[c]	105	5 to 40	4	Octal	3-1/16
OD3	150	5 to 40	5.5	Octal	4-1/8
OD3A[c]	150	5 to 40	5.5	Octal	3-1/16
991	59	0.4 to 2	8	Candelabra 2-Contact	1-9/16
6073[d]	150	5 to 30	6	7-Pin Min.	2-5/8
6073/OA2[d]	150	5 to 30	6	7-Pin Min.	2-5/8
6074[d]	105	5 to 30	4	7-Pin Min.	2-5/8
6074/OB2[d]	105	5 to 30	4	7-Pin Min.	2-5/8
6626/OA2WA[e]	150	5 to 30	5	7-Pin Min.	2-5/8

Voltage-Reference Types (For Exceptional Voltage Stability)

5651A[f]	85.5	1.5 to 3.5	3	7-Pin Min.	2-1/8
5651WA	For data, refer to Military Specification				—
5783	86	1.5 to 3.5	3	Submin.	—

[c] Types 0A3A, 0C3A, and 0D3A are similar electrically to their respective prototypes, 0A3, 0C3, and 0D3, but are 1-1/16" shorter and utilize a straight tubular bulb, and are, therefore, more compact.

[d] Types 6073 and 6073/0A2, 6074 and 6074/0B2 are similar to their prototypes 0A2 and 0B2, respectively, but are intended for applications critical as to mechanical shock (up to 500 g) and vibration (up to 2.5 g).

[e] Where voltage repeatability is critical.

[f] During the first 300 hours of operation at I_k = 2.5 mA, the variation of dc anode voltage drop from the initial value is less than 0.1%; between 300 and 1300 hours, less than 0.1% from the 300-hour value and less than 0.05% during any 100-hour period.

Characteristics | Receiving-Type Tubes (cont'd)
for Fixed Station Communications (cont'd)

Types for Stabilization of DC Voltage Supplies[b] (cont'd)

Series-Voltage-Regulator Types
(For High-Current Applications)

Type	E_f/I_f V/A	Max[g] Rating I_b mA	r_p[g] Ω	Base	Max Overall Length In
6AS7G	6.3/2.5	125	280	Octal	5-5/16
6AS7GA	6.3/2.5	125	280	Octal	4-5/8
6080	6.3/2.5	125	280	Octal	4-1/16
6080WA	6.3/2.5	125	280	Octal	4-1/16
6082	26.5/0.6	125	280	Octal	4-1/16
6336A	6.3/5	400	200	Octal	4-3/4

b For voltage-regulation applications requiring a relatively constant dc output voltage across a load independent of load and line-voltage variations.

g Each section.

T = Triode unit

Other Types Suitable for Fixed Station Applications

Type	E_f/I_f V/mA	Max Rating P_b W	g_m μmho	Base	Max Overall Length In
6AU6WB	For data, refer to Military Specification				–
6J6WA	For data, refer to Military Specification				–
12AT7WA	For data, refer to Military Specification				–
12AT7WB	For data, refer to Military Specification				–
407A	40/50 20/100	1.35	5500	9-Pin Min.	1-3/4
408A	20/50	1.7	5000	7-Pin Min.	1-3/4
5636	6.3/150	1.1	3200	Submin.	1-3/8
5639	6.3/450	4	9000	Submin.	1-3/4
5654	6.3/175	1.85	5100	7-Pin Min.	1-3/4
5670	6.3/350	1.35	5500	9-Pin Min.	1-3/4
5686	6.3/350	8.25	3100	9-Pin Min.	2-3/16
5718	6.3/150	3.3	6500	Submin.	1-3/8
5719	6.3/150	0.55	2300	Submin.	1-3/8

Other Types Suitable for Fixed Station Applications (cont'd)

Type	E_f/I_f V/mA	Max. Rating P_b W	gm μmho	Base	Max. Overall Length In
5725	6.3/175	1.65	3200	7-Pin Min.	1-3/4
5749	6.3/300	3	4400	7-Pin Min.	2-1/8
5750	6.3/300	1.1	–	7-Pin Min.	2-1/8
5751	12.6/175 6.3/350	0.8	1200	9-Pin Min.	2-3/16
5814A	12.6/175 6.3/350	3	2200	9-Pin Min.	2-3/16
5842/417A	6.3/300	4.5	25000	9-Pin Min.	1-3/4
5847/404A	6.3/300	3.3	12500	9-Pin Min.	1-3/4
5902	6.3/450	4	4200	Submin.	1-3/4
6005	6.3/450	11	4100	7-Pin Min.	2-5/8
6021	6.3/300	1.1	5400	Submin.	1-3/8
6072	12.6/175 6.3/350	1.65	1750	9-Pin Min.	2-3/16
6072A	12.6/175 6.3/350	1.6	1750	9-Pin Min.	2-3/16
6101	6.3/450	0.85	6000	7-Pin Min.	2-1/8
6111	6.3/300	1.1	5000	Submin.	1-3/8
6112	6.3/300	0.55	2500	Submin.	1-3/8
6136	6.3/300	3.3	5200	7-Pin Min.	2-1/8
6186	6.3/300	2.5	5000	7-Pin Min.	2-1/8
6189	12.6/150 6.3/300	2.75/T	2200/T	9-Pin Min.	2-3/16
6201	12.6/150 6.3/300	2.75	5500	9-Pin Min.	2-3/16
6386	6.3/350	1.5	4000	9-Pin Min.	1-3/4
6485	6.3/450	3.2	11000	7-Pin Min.	2-1/8
6686	6.3/375	4.5	11000	9-Pin Min.	2-5/8
7643	6.3/330	1.75/T 2.15/P	5000/T 6200/P	9-Pin Min.	2-27/64
7788	6.3/340	5	50000	9-Pin Min.	2-3/16
8233	6.3/600	10	45000	9-Pin Min.	3

Beam-Deflection Type Having 2 Plates

7360	6.3/350	1.5	5400	9-Pin Min.	2-5/8

for Other Industrial Applications

Trigger Types (Gas-Filled)

Thyratrons
(For Relay-Control & Grid-Controlled-Rectifier Applications)

Triodes

Type	E_f/I_f V/A	Max. Ratings e_{bm} V	Max. Ratings $I_k(av)$ mA	Base	Max. Overall Length In
6D4	6.3/0.25	+ 450	25	7-Pin Min.	2-1/8
884	6.3/0.6	±350	75	Octal	4-1/8

Tetrodes

2D21	6.3/0.6	+ 650 -1300	100	7-Pin Min.	2-1/8
2050	6.3/0.6	+ 650 -1300	100	Octal	4-1/8
2050A	6.3/0.6	+ 650 -1300	100	Octal	3-1/16
5663	6.3/0.15	± 500	20	7-Pin Min.	1-3/4
5696	6.3/0.15	± 500	25	7-Pin Min.	1-3/4
5696A	6.3/0.15	± 500	28	7-Pin Min.	1-3/4
5727	6.3/0.6	+ 650	100	7-Pin Min.	2-1/8
6012	6.3/2.6	-1300 + 650 -1300	500	Octal	3-7/8

Cold-Cathode Types (for Relay-Control Applications)

OA4G	–	± 225	25	Octal	4-1/8
1C21	–	–	25	Octal	2-5/8
5823	–	± 200	25	7-Pin Min.	2-1/8

Types for On-Off Control Applications
(Involving Long Periods of Operation Under Cutoff Conditions)

Type	E_f/I_f V/mA	Max. Ratings $I_k(av)$ mA	Max. Ratings P_b W	g_m μmho	Base	Max. Overall Length In
6AS6	6.3/175	18	1.7	3200	7-Pin Min.	1-1/2
2081/6AW8A	6.3/600	–	3.75	9500	9-Pin Min.	2-5/8
2082/12AY7	12.6/150 6.3/300	10	1.5	1750	9-Pin Min.	2-3/16
5844	6.3/300	9	0.5	3400	7-Pin Min.	2-1/8
5915	6.3/300	20	1	2000	7-Pin Min.	2-1/8
5963	12.6/150 6.3/300	20	2.5	3200	9-Pin Min.	2-3/16
5964	6.3/450	15	1.5	6000	7-Pin Min.	2-1/8
5965	12.6/225 6.3/450	16.5	2.4	6500	9-Pin Min.	2-3/16
6099	6.3/450	–	0.85	6000	7-Pin Min.	2-1/8
6197	6.3/650	50	7.5	11000	9-Pin Min.	2-5/8
6211	12.6/150 6.3/300	16	1	3600	9-Pin Min.	2-3/16
6350	12.6/300 6.3/600	45	4	4600	9-Pin Min.	2-5/8
6887	6.3/200	$-e_{bm}$ = 360 V, $I_{o(av)}$ = 10 mA			7-Pin Min.	1-5/8
6922/E88CC	6.3/300	20	1.5	12500	9-Pin Min.	2-3/16
7044	12.6/450 6.3/900	50	4.5	12000	9-Pin Min.	2-5/8
8234	6.3/225	–	2.5	6500	7-Pin Min.	3-1/2

Premium tube types are shown on gray background. These types are subjected to more rigorous tests and controls than other types.

Characteristics | Receiving-Type Tubes (cont'd)
for Other Industrial Applications (cont'd)

Other Special Applications (cont'd)

Indicator-Type Electron-Ray Tube

Type	E_f/I_f V/mA	Max Rating P_b W	g_m μmho	Base	Max Overall Length In
1629	12.6/150	–	–	Octal	4-1/8
6977	1.0/30	–	–	Submin.	1.1

Low-Microphonic-Amplifier Types

1612	6.3/300	1.5	1100	Octal	3-1/8
1620	6.3/300	0.75	1225	Octal	3-1/8

Mechano-Electronic Transducer

5734	6.3/150	0.4	275	4-Lead	1.3

Pentagrid Converter

12SY7	12.6/150	1	–	Octal	2-5/8

Other Special Applications (cont'd)

Intermediate-Loss, Micanol-Base Types
(Loss Factor < 0.1 per ASTM D-150-59T)

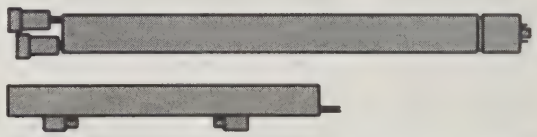
Type	E_f/I_f V/mA	Max Rating P_b W	g_m μmho	Base	Max Overall Length In
5R4GYB	5/2000	for added data, see p. 16.		Octal	4-1/4
6AG7Y	6.3/650	9	11000	Octal	3-1/4
6SJ7Y	6.3/300	2.5	1650	Octal	2-5/8

Voltage Amplifiers

6AC7W	6.3/450	3.3	9000	Octal	2-5/8
6AH6WA	6.3/450	3.3	9000	7-Pin Min.	2-1/8
6AS6	6.3/175	1.7	3200	7-Pin Min.	1-3/4
12SW7	12.6/150	2.5	1900	Octal	2-5/8
5687	12.6/450 6.3/900	4.2	5400	9-Pin Min.	2-3/16
6688A	6.3/300	3	16500	9-Pin Min.	1-3/4
8628 Nuvistor	6.3/150	0.3	3100	5-Pin Nuvistor	0.800

Characteristics | Microwave Devices

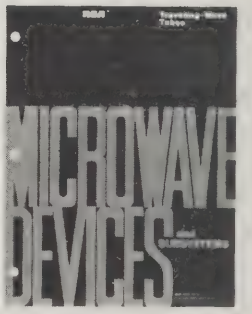
Traveling - Wave Tubes



Traveling-Wave Tubes are characterized by extremely wide bandwidth, large dynamic range, and high-gain capability.

Typical Applications

- Communication Equipment
- Electronic Counter Measures
- Radar
- Satellites
- Telemetry Equipment



For more information, refer to the product line catalog: Microwave Devices, TWT's and Subsystems, MWD-101E — 4 pages.

Low Power Types — With Periodic Permanent Magnet Focusing

Type	Frequency Range GHz	Min. Power Output mW	Max. Noise Figure dB	Maximum Dimensions In
A1327	2 - 4	10	17	12.3 x 1.57 x 1.56
A1361	4.19 - 8.0	10	–	12.0 x 1.5 x 1.57
A1381	2 - 3.85	20	–	12.3 x 1.56 x 1.56
A1383	7.4 - 12	5	20	12 x 1.5 x 1.5
A1422	8 - 12	10	10	12 x 1.5 x 1.5
A1436	7.6 - 12	200	–	13.1 x 1.25 x 1.25
A1440	7.6 - 16	500	–	13.1 x 1.25 x 1.25
A1442	7 - 12.4	3	12	12.0 x 1.5 x 1.5

Medium-Power Types

4041	8 - 12	1	32	15.0 x 2.20 x 3.25
4053	1 - 2	10	25	20.5 x 3.12 x 3.88
4054	1.7 - 2.7	17	28	19.0 x 3.12 x 3.88

Medium-Power Types

Type	Frequency Range GHz	Min. Power Output Watts	Min. Small-Signal Gain dB	Maximum Dimensions In
4079	10.7 - 11.7	10	41	13.3 x 3.75 x 3.8
7642	1.7 - 2.3	18	28	20.5 x 3.12 x 3.88
A1310	2 - 6	3	40	15.4 x 1.87 x 2.0
A1317	0.75 - 1	20	30	20.0 x 2.2 x 2.5
A1358	3 - 8	2	35	15.2 x 1.87 x 2.0
A1378	7.9 - 8.4	20	40	11.0 x 2.0 x 1.75
A1384	2 - 3.85	1	37	13.0 x 1.69 x 1.31
A1390	10.7 - 11.7	20	44	13.2 x 3.75 x 3.8
A1397	5 - 10	4	40	11.0 x 2.0 x 1.75
A1428	7 - 11	2	40	11.0 x 2.0 x 1.75
A1444	8 - 16	10	40	11.3 x 2.0 x 1.75
A1445	4 - 8	10	40	11.3 x 2.0 x 1.75
A1446	9.8 - 10.7	20	47	11.8 x 2.75 x 3.59
A1456	10.7 - 13.2	28	45	14.2 x 4.13 x 3.5

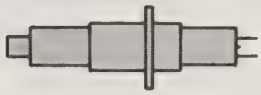
Characteristics | Microwave Devices (cont'd)

Pencil Tubes

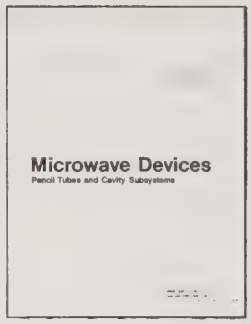
Pencil Tubes are small, lightweight microwave devices incorporating coaxial-electrode construction which results in low heater power, fast warm-up time, and good thermal stability. They are especially suitable for cavity-type circuits.

Typical Applications

- Communications Equipment
- Receivers and Transmitters
- Radiosondes and Rocketsondes
- Telemetry Equipment
- Transponders
- Radar
- Test Equipment



For more information, refer to the product line catalog: RCA Pencil Tube Classification Charts, MWD-102C — 6 pages. Provides tabulated data.



Ceramic-Metal Triodes

Type	Class of Service	Typical		Maximum Dimensions	
		Frequency GHz	Power Output Watts	Overall Length In	Diameter In
4028A	Pulsed Oscillator	3.3	1000 Peak	1.622	0.557
4055	Pulsed Oscillator	3.3	1300 Peak	1.77	0.557
4062A	Pulsed Oscillator	1.09	500 Peak	1.77	0.557
7552	A_1 Amplifier	0.55	16.5dB gain	1.620	0.557
7553	A_1 Amplifier	0.7	17dB gain	1.620	0.557
7554	Amplifier	1	1.4	1.620	0.557
8727	Amplifier	1	1.3	1.485	0.557

Glass-Metal Triodes

4037A	Oscillator	2	0.45	3.125	1.312
4058	Pulsed Oscillator	3.3	800 Peak	2.297	0.817
5675	Oscillator	1.7	0.475	2.252	0.817
5876A	Amplifier	0.5	5	2.252	0.817
5893	Pulsed Oscillator	3.3	1200 Peak	2.297	0.817
6263A	Amplifier	0.5	7	2.63	1.010
6264A	Amplifier	0.5	7.5	2.63	1.010

Glass-Metal Diode

Type	Class of Service	Peak Inverse Plate Volts	Average Plate mA	Maximum Dimensions	
				Overall Length In	Diameter In
6173	Pulse Detector Rectifier	1000 375	1 5.5	2.227	0.320

Integral-Cavity Triodes

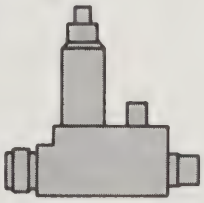
Type	Class of Service	Typical		Maximum Dimensions	
		Frequency GHz	Power Output Watts	Overall Length In	Diameter In
4068	Pulsed Oscillator	1.09	500 Peak	3.1 x 1.41 x 1.41	
4070-4071	Pulsed Oscillator Amplifier	1.09	600 Peak	4.03 x 0.88 dia. 4.44 x 0.88 dia.	
4072	Pulsed Oscillator	1.09	500 Peak	3.3 x 1.41 x 1.41	
4074	Pulsed Oscillator	1.09	250 Peak	4.25 x 1.41 x 1.41	
6562/5794A	CW Oscillator	1.68	0.6	3.256	0.98
7533	CW Oscillator	1.68	0.575	3.23	0.98
J2041V3	Pulsed Amplifier Chain	1.03	200 Peak	8.26 x 3.77 x 1.27	
A15219 to A15235 (Odd Nos.)	CW Oscillators	0.9 to 3.4	1.1 to 0.1	6 to 2	1
A15220 to A15236 (Even Nos.)	Pulsed Oscillators	0.9 to 3.4	800 Peak to 100 Peak	6 to 2	1
A15599	Pulsed Osc.	1.09	125 Peak	3.03	0.88
A15610	Pulsed Osc.	1.09	325 Peak	3.03	0.88

Microwave Solid-State Devices

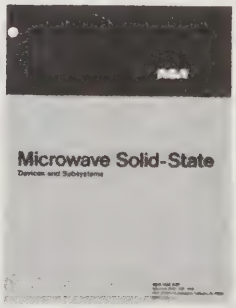
Microwave Solid-State Devices are integral microwave circuits with associated solid-state components. They provide sources of microwave power, amplification, frequency multiplication, and down conversion.

Typical Applications

- Driver Chains for Radar
- Radio-Relay Equipment
- Signal Sources for Parametric Amplifiers
- Highly Stable Local Oscillators
- Telemetry Equipment



For more information, refer to the product line catalog: RCA Microwave Device Classification Charts, MWD-104E — 6 pages. Provides capability information and tabulated data.



Tunnel-Diode Amplifiers

Type	Frequency Range GHz	Gain dB	Max. Noise Figure dB	Maximum Dimensions In
SS2100	5.4-7.1	13.5	5	4 x 2 x 3.25
SS2106	9.2-9.7	20	6	3.5 x 1.88 x 3.3

Transferred-Electron Oscillators

Type	Frequency Range GHz	Typical Power Output mW	Maximum Dimensions In
S293	10	20	1.75 x 1.725 x 2.5
S294	12	20	1.4 x .625 dia.
S307	8-10	120	1.62 x 1.62 x 1.1
S308	10-12	120	1.62 x 1.62 x 1.1
S321	8-10	5 W Peak	1.62 x 1.62 x 1.1
S322	10-12	5 W Peak	1.62 x 1.62 x 1.1
S329	4-6	120	1.55 x 1.25 x 2.0
S330	6-8	120	1.55 x 1.25 x 2.0
S334	6-8	5 W Peak	0.75 x 1.1 x 1.76
S335	4-6	10 W Peak	0.75 x 1.1 x 1.76

Transferred-Electron Amplifiers

Type	Frequency Range GHz	Typical Power Output mW	Maximum Dimensions In
S384	6-8	250	—
S385	8-10	250	
S386	14-16	120	—

Ferrite Devices

Type	Description	Center Freq. GHz	Isolation dB	Maximum Dimensions In
S250	Circulator	8.500	20	0.5 x 1.0 x 1.2
S255	TR Switch	9.345	100	2.1 x 6.3 x 10.0
S261	Isolator	12.800	20	0.4 x 1.3 x 1.3
S277	TR Switch	5.400	100	2.5 x 3.2 x 8.0

Socket Information

Socket & Shields for Photomultiplier, Image-Converter and Photodiode Tubes

RCA Type No.	Socket Code No.	Shield Code No.	RCA Type No.	Socket Code No.	Shield Code No.	RCA Type No.	Socket Code No.	Shield Code No.	RCA Type No.	Socket Code No.	Shield Code No.
1P21	1	A	934	11	–	4473	1	A	6903	5	N
1P22	1	A	935	13	–	4516	–	O	6914	–	–
1P28	1	D	1640	14	–	4517	3	H	6914A	–	–
1P28/V1	1	D	2020	5	N	4518	5	N	6929	–	–
1P28A	1	D	2060	–	I	4521	–	–	6953	13	–
1P28A/V1	1	D	2061	–	N	4522	8 & 9	T	7043	13	–
1P29	14	–	2062	–	N	4523	5	N	7102	3	H
1P37	14	–	2063	5	N	4524	5	V	7117	2	B
1P39	13	–	2064B	–	V	4525	5	W	7200	1	E
1P40	13	–	2065	–	W	4526	–	G	7264	7	R
1P41	11	–	2067	–	L	5581	13	–	7265	7	R
1P42	12	–	4409	13	–	5582	–	–	7326	10	S
868	14	–	4438	–	J	5583	11	–	7746	5	P
917	14	–	4439	–	J	5652	13	–	7764	6	–
918	14	–	4440	4	J	5653	13	–	7767	–	O
919	14	–	4441	–	K	5819	5	N	7850	7	P
920	15	–	4441A	–	K	6032A	–	–	8053	5	N
921	–	–	4449A	–	–	6199	3	H	8054	5	V
922	–	–	4459	7	P	6217	5	N	8055	5	W
923	15	–	4460	–	O	6328	2	B	8571	–	F
925	13	–	4461	–	K	6342A	5	N	8575	8 & 9	Q
926	–	–	4463	5	N	6381	–	–	8644	–	–
927	11	–	4464	10	V	6405/1640	14	–	8645	–	–
929	13	–	4465	10	W	6472	–	C	8664	–	O
930	13	–	4471	1	A	6570	14	–	8664/V1	–	U
931A	1	A	4472	1	A	6655A	5	N	8850	8 & 9	Q
						6810A	7	R	8851	8 & 9	Q

Code Charts

Code No.	Magnetic Shield Manufacturer and No.
A	JAN-S–1562 Millen - 80801B Perfection Mica - 13P3V1
B	JAN-S-1562 Millen - 80801G, 80801K Perfection Mica - 13P28V1
C	Millen - 80801H Perfection Mica - 13P23V1
D	JAN-S-1562 Millen - 80801B Perfection Mica - 13P32V1
E	Millen - 80801L Perfection Mica - 13P52V1
F	Perfection Mica - 07P13V1
G	Millen - 80802M
H	JAN-S-1561 Millen - 80802C Perfection Mica - 17P45
I	Perfection Mica - 17P45
J	Perfection Mica - 17P30
K	Millen - 80802P Perfection Mica - 17P30
L	Perfection Mica - 17P45
M	Millen - 80802P
N	JAN-S-2004 Millen - 80802B Perfection Mica - 25P50
O	Perfection Mica - 10P40
P	JAN-S-2004 Perfection Mica - 22P60
Q	Perfection Mica - 22P50
R	JAN-S2002, JAN-S-2003 Millen - 80802E Perfection Mica - 21P55V1
S	JAN-S-2002 Perfection Mica - 21P45V1
T	Perfection Mica - 32P100X55
U	Perfection Mica, foil or tape
V	Millen - 80803J Perfection Mica - 23P55X32
W	Millen - 80805M Perfection Mica - 23P68X57

Code No.	Base JEDEC No.	Socket Manufacturer and No.
1	B11-88	Amphenol - 77M1P11T
2	B11-104	Cinch-Jones - 203-52-11-006
3	B12-43	Alden - 212FTSC Amphenol - 59-402 Eby - 9058
4	B12-186	Alden - 212FTSC Amphenol - 59-402 Eby - 9058
5	B14-38	Amphenol - 59-417 Cinch - 3-M14 Eby - 9709 -7 Loranger - 2274 Alden - 214-FCC
6	E9-37	Garlock - 69005-7957
7	B20-102	Cinch - 20PM Alden - 220FTC Eby - 9778-1-2
8	Special	RCA - AJ2144
9	Special	RCA - AJ2145
10	B14-45	Cinch - 3M14 Amphenol 59-417 Loranger - 2274
11	A3-1	Amphenol - 78S3S
12	Special	Alden - 446PC (cartridge)
13	B5-10	Loranger - 1935 Eby - 9729-127 Cinch - 9875 Amphenol - 77M1P8T Johnson - 122-228-200
14	A4-26	Loranger - 2093 Amphenol - T1M1P8T Johnson - 122-224-100 Cinch - 2154
15	A4-5	Loranger - 2093

Socket Information

Sockets for RCA Power Tubes

RCA Tube Family	Socket No.	Supplier	Chimney No.	Supplier
6816	124-152-1	EF Johnson	None Required	–
7457	CD 89-015	Jettron	None Required	–
	CD 89-006	Jettron	None Required	–
	9819-000	Erie	None Required	–
7650	CD 89-083	Jettron	None Required	–
8791	J15284	RCA	None Required	–
	9806-011	Erie	None Required	–
	J15280	RCA	None Required	–
	CD 89-078	Jettron	None Required	
	9806-002	Erie	None Required	–
7213	CD 89-095	Jettron	8821	Jettron
8792	J15282	RCA	J15285	RCA
4632	CD 89-092	Jettron	8822	Jettron
	CD 89-092	Jettron	J15286	RCA
8501	CD 89-028	Jettron	8823	Jettron
	CD 89-028	Jettron	J15287	RCA
8793	CD 89-088	Jettron	8822	Jettron
	J15281	RCA	J15286	RCA
8794	CD 89-088	Jettron	8823	Jettron
8806	J15281	RCA	J15287	RCA
8807	CD89-085	Jettron	8824	Jettron
	J15283	RCA	J15288	RCA

Socket & Connector Information for Receiving Tubes

Base	Socket				
	Description		Manufacturer or Distributor and Part No.		
	Application	Mounting	Cinch Mfg. Co.	Cinch-Jones Sales Division Distributors	Industrial Electronic Hardware Corp.
5-Pin Nuvistor	General-Purpose Type	Crimp Mounting	133 65 10 001	5NS	MSN 0905-1 MSN 0905-2 MSN 0905-3
		Flange Mounting	133 65 10 003	5NS-1	–
		Printed Board ("Stand-off")	133 65 10 009	5NS-2	–
	UHF Heat-Dissipating Type	Crimp Mounting	133 65 10 041	5NS-3	–
6-Pin Nuvistor Type 8808	UHF Heat-Dissipating Type	Crimp Mounting	133 67 90 040	5NS-4	–
7-Pin Miniature	Miniature 7-Contact		Generally available from your local RCA Distributor		
9-Pin Miniature	Miniature 9-Contact				
Octal	Octal 8-Contact				
5-Pin Acorn	James Millen Mfg. Co., Inc. 33105 (Polystyrene) or 3305 (Steatite)				
Small 4-Pin	E. F. Johnson Company	122-224-1 (Standard), 122-224-100 (Industrial), or 122-224-200 (Military)			
Small 5-Pin	E. F. Johnson Company	122-225-1 (Standard) or 122-225-200 (Military)			
Candelabra 2-Contact	James Millen Mfg. Co., Inc.	33991 (Phenolic) or 33992 (low-loss mica-filled phenolic)			

Cap	Connector	
Miniature	Cinch Mfg. Co. 6005 or 422 03 22 017, 6014 or 422 03 22 024, or equivalent "1/4-inch" connector	
Nuvistor Type 8808	For Distributed-Constant Circuit	International Electronic Research Corp. Therma-Link Retainer Part No.TXBE-032-031G
	For Lumped-Constant Circuit	Wakefield Engineering, Inc. Semiconductor Cooler Type NF207

Sockets and Shields-Manufacturer's Addresses

Cinch-Jones Div., Cinch Manufacturing Company, 1501 Morse Avenue, Elk Grove Village, IL 60007

Industrial Electronic Hardware Corporation, 109 Prince Street, New York, NY 10012

James Millen Manufacturing Company, Inc., 150 Exchange Street, Malden 48, MA 02148

E. F. Johnson Company, 193 Tenth Avenue S.W., Waseca, MN 56093

International Electronic Research Corp., 135 West Magnolia Blvd., Burbank, CA 91502

Wakefield Engineering Inc., 139 Foundry Street, Wakefield, MA 01880

Alden Products Company, 9140 North Main Street, Brockton, MA 00413

Amphenol, 1830 South 54th Avenue, Chicago, IL 6050 – Industrial Division of Amphenol Corp.

Garlock Incorporated, 602 North 10th Street, Camden, NJ 08102

Loranger Manufacturing Corporation, 36 Clark Street, Warren, PA 16365

JAN Hardware Manufacturing Company Incorporated, 47-27 36th Street, Long Island City, NY 11101

Magnetic Shield Division, Perfection Mica Company, 1322 N. Elston Avenue, Chicago, IL 60622

Radio Corporation of America, Marketing Department, Lancaster, PA 17604

Jettron Products Incorporated, 58 Route 10, Hanover, NJ 07936

Erie Technological Products Incorporated, 644 West 12th Street, Erie, PA 16512

Hugh H. Eby Company, 4701 Germantown Avenue, Philadelphia, PA 19144

Replacement | Directory

How to Use

The Replacement Directory on the following pages contains RCA active types, RCA types limited to extent of inventory, and RCA types recently withdrawn in addition to other manufacturer's types. For active RCA types, check the "Index to Types" in the "Characteristics" section.

The Replacement Directory consists of a series of three columns:

Column 1: Type Designation of Type to be Replaced

Note: Types are indexed in a special numerical sequence; check the steps below before proceeding!

a. Locate the first numerical field in the type designation. Ignore all letters that come before the first number; read the number to the end, or up to a letter, hyphen or slash. Note the first numerical field underlined in the following examples:
0A2, GXU1, DE2/200, QV2-250B, Q400-1, 7866, and GLE20000/2.5/10.

b. Type designations consisting entirely of letters are listed in alphabetical order at the end.

c. Types are ordered in numerical sequence of the first numerical field described in (a).

d. Types with the same first numerical field are than ordered by the next character as follows: end of designation, slash, hyphen, and letter (s). (GXU1, TQ1/2, TD1-100A, C1B.)

e. If more than one type in (d) is the end of the type designation, the types are ordered alphabetically by the letter prefixes (DQ2, DX2).

f. If more than one type in (d) is followed by a slash, hyphen, or letter, ordered alphabetically or numerically according to the field following the slash or hyphen or the alphabetical field including the letter.
(TQ1/2, QEL1/150, CT1/2500; TD1-100A, QV1-150A, XG1-2500).

Column 2: Direct RCA Replacement Type

RCA types shown in this column are direct replacements for corresponding types to be replaced.

Column 3: Similar RCA Replacement Type

RCA types shown in this column are not directly interchangeable with the types to be replaced because of differences in mechanical and/or electrical characteristics. For more information as to degree of interchangeability, refer to respective tube data.

Type to be Replaced Basic Designation	RCA Replacement	
	Direct	Similar
0A2	0A2	0A2WA, 0D3, 0D3A, 6073, 6073/0A2, 6626/0A2WA
0A2WA	0A2WA	0A2, 0D3, 0D3A, 6073, 6073/0A2, 6626/0A2WA
0A3	0A3, 0A3A	0C2
0A3/VR75	0A3, 0A3A	0C2
0A3A	0A3A	0A3, 0C2
0A4G	0A4G	
0B2	0B2	0B2WA, 0C3, 0C3A, 6074, 6074/0B2
0B2WA	0B2WA	0B2, 0C3, 0C3A, 6074, 6074/0B2
0C2	0C2	0A3, 0A3A
0C3	0C3, 0C3A	0B2, 0B2WA, 6074, 6074/0B2
0C3/VR105	0C3, 0C3A	0B2, 0B2WA, 6074, 6074/0B2
0C3A	0C3A	0B2, 0B2WA, 0C3, 6074, 6074/0B2
0C3W		0B2, 0B2WA, 0C3, 0C3A, 6074, 6074/0B2
0D3	0D3, 0D3A	0A2, 0A2WA, 6073, 6073/0A2
0D3/VR150	0D3, 0D3A	0A2, 0A2WA, 6073, 6073/0A2
0D3A	0D3A	0A2, 0A2WA, 0D3, 6073, 6073/0A2
0D3W		0A2, 0A2WA, 0D3, 0D3A, 6073, 6073/0A2
GXU1	3B28,	
TQ1/2	3C23	
CT1/2500	5559	
TD1-100A		2C39A
QV1-150A	7034/ 4X150A	
XG1-2500	5559	
CE1A/B		918
C1B		3C23
C1B/A		3C23
CE1C	918	
1C21	1C21	
CE1D	868	
1EP1	1EP1	
1EP2	1EP2	
1EP11	1EP11	
1EP16	1EP16	
1F2	1L4	
1G45P	6130/3C45	
1G84		884
1H16		816
C1J/A		3C23
C1K	C1K/6014	
C1K/6014	C1K/6014	
1K22		2X2A
1L4	1L4	
1P21	1P21	
1P22	1P22	
1P23	868	
1P28	1P28	
1P28/V1	1P28/V1	
1P28A	1P28A	
1P28A/V1	1P28A/V1	
1P29	1P29	
1P29/FJ401	1P29	
1P32	927	
1P37	1P37	
1P39	1P39	
1P40	1P40	
1P41	1P41	
1P42	1P42	
CE1VA/B		917, 919
DQ2		866A
DX2	3B28	
K2		866A
TQ2		5557
QQEO2/5	6939	
DE2/200		866A
QB2/250	813	
QQVO2-6	6939	
P2-12	832A	
QY2-100	813	
2-150D		8020
XGQ2-6400		105
CE2A/B		920
2AP1	2AP1A	
2AP1A	2AP1A	
2B29	829B	
2B29P		3E29
2B32	832A	
2B46	6146A, 6146B/ 8298A	
2B46P		6293
2BP1	2BP1	
2BP11	2BP11	
CE2C		6953
2C22		6J5
2C38	2C39A	
2C39	2C39A	
2C39A	2C39A	
2C39A/V1	2C39A/V1	
2C39B		2C39A
2C39WA	2C39WA	
2C40	2C40	
2C40A		4037A
2C43	2C43	
2C51	5670	5670WA
CE2D		1P40, 930
2D21	2D21	5727,
2D21W		5727, 2D21
2E24	2E24	
2E25		2E24
2E26	2E26	
2F21	2F21	
2G57A		5557
2H28	3B28	
2H66	866A	
2K26	2K26	
2V/400A	866A	
2X2/879	2X2A	
2X2A	2X2A	
2XM600A	866A	
2Y2	2X2A	
QEO3/10	5763	
QB3/200	8165/4-65A	
QB3/300	6155	
QB3/300GA	4-125A/4D21	
QVO3-12	5763	
XH3-045		6130/3C45
3-50A4		811A
3-50G2		812A
QY3-65	8165/4-65A	
3-75A3		8005
QY3-125	6155	
RR3-250	3B28	
RG3-250A		866A
3-450A4		833A
3A4	3A4	
3A5	3A5	
3AP1	3AP1A	
3AP1A	3AP1A	
3AQP1	3AQP1	
3B4WA	3B4WA	
3B24W		8020
3B25	3B28, CR275/866A/ 3B25/3B28	
3B27		836
3B28	3B28, CR275/866A/ 3B25/3B28	
3B28/6277	3B28, CR275/866A/ 3B25/3B28	
3BP1	3BP1A	
3BP1A	3BP1A	
EL3C		604/7014
3C21		812A
3C23	3C23	
3C33	No RCA Replacement	
3C45	6130/3C45	
3CX100A5		2C39A, 6897
3CX3000A7	3CX3000A7	
3CX10000A7	3CX10000A7	
3D22	3D22A	
3D22A	3D22A	
3E29	3E29	
3E29A	3E29	
3F65		8165/4-65A
3G22		3D22A
3H150J		2C39A
C3J	C3J/5632	
C3J/5632	C3J/5632	
C3J/A	C3JA/5684	
C3JA/5684	C3JA/5684	
C3JL	C3JL	
3JP1	3JP1	
3JP7	3JP7	
3KP1	3KP1	
3KP7	No RCA Replacement	
3KP11	No RCA Replacement	
3RP1	3RP1	
3RP1A	3RP1A	
3RP7A	3RP7A	
3WP1	3WP1	
3WP11	3WP11	
3X100A5	2C39A	
3X100A11	2C39A	
3X2500A3		5762
3X3000F1	8239/ 3X3000F1	
QB3.5/750	6156	
DQ4	872A, CR274/872A	
QQEO4/20		832A
QBL4/800	4X500A	
DCX4/1000	3B28, CR275/866A/ 3B25/3B28	
DCG4/1000G		866A, CR275/866A/ 3B25/3B28
QB4/1100GA	8438/4-400A	
QQVO4-15	832A	
4-65A	8165/4-65A	
4-125A	4-125A/4D21	
4-125A/4D21	4-125A/4D21	
4-125A/6155	6155	
4-250A	4-250A/5D22	
4-250A/5D22	4-250A/5D22	
TY4-350	833A	
QY4-400		8438/4-400A
4-400A	8438/4-400A	
QY4-500A	4X500A	
4-750A		8166/4-1000A
4-1000A	8166/ 4-1000A	
CE4A/B		1P40,
4AP10	4AP10	
4B13	813	930
4B24		604/7014
4B32		872A
CE4C		1P40, 930
4C21		8005
4C22		8005
4C25		812A
4CX250B	4CX250B	
4CX300A	8167/ 4CX300A	
4CX1000A	8168/	

Replacement | Directory (cont'd)

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
	4CX1000A	
4CX5000A	8170/ 4CX5000A	
4CX10000D	8171/ 4CX10000D	
4CX15000A	8281/ 4CX15000A	
CE4D	1P40, 930	
4D21	4-125A/4D21	
4D21/4-125A	4-125A/4D21	
4D21A		4-125A/4D21
4D32		4-125A/4D21
4E27/8001		4E27A/5-125B
4E27A	4E27A/ 5-125B	
4E27A/ 5-125B	4E27A/ 5-125B	
4F15R	4X150A	
4F21		6155
4G14		C1K/6014
4G23		3C23
4G63		5563A
4H72	872A	
4H73		673
4X150A	4X150A	
4X500A	4X500A	
4Y25	807	
QEO5/40	6146A, 6146B/ 8298A	
QEO5/40F	6883, 6883B/ 8032A/8552	
QEO5/40H	6159B	
QB5/2000		8166/4-1000A
DCG5/5000GB	872A	
DCG5/5000GS	8008	
QQV5-P10	3E29	
QVO5-25	807	
5-125B	4E27A/ 5-125B	
XG5-500	5557	
G5A	872A, CR274/872A	
CE5A/B		927
5ABP1	5ABP1	
5ABP7	5ABP7	
5ABP11	5ABP11	
5ABP31	5ABP31	
5ADP1	5ADP1	
5ADP31	5ADP31	
5AGP1		5ABP1
5AHP7	5AHP7	
5AQP1	5AQP1	
5AUP24	5AUP24	
5AZP4	5AZP4	
5B250A	807	
5BP1	5BP1A	
5BP1A	5BP1A	
CE5C		927
5C21	C6J/5C21	760/6858
5C21/C6J	C6J/5C21	760/6858
5C24		8000
5C100A	813	
5CNP16		5ZP16
5CP1	5CP1A	
5CP1A	5CP1A	
5CP11A	5CP11A	
5CP12	No RCA Replacement	
CE5D		927
5D22	4-250A/ 5D22	
5D24		4-250A/5D22
5DEP1		5UP1
5DEP7		5UP7
5F22	4-250A/ 5D22	
5F23		8438/4-400A
5FP4A	5FP4A	
5FP7A	5FP7A	
5FP7B		5FP7A
5FP15A	No RCA Replacement	
5G11		710/6011
5G32		C3J/5632
5G84		C3JA/5684
5H69A	869B	
5HP1A		5BP1A
5R4GY	5R4GYB	
5R4GYA	5R4GYB	
5R4GYB	5R4GYB	
5TP4		5AZP4
5UP1	5UP1	
5UP7	5UP7	
5UP11	5UP11	
5UP31	5UP31	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
5WP11	5WP11	
5WP15	No RCA Replacement	
5ZP16	5ZP16	
5ZP24		5AUP24
DQ6	869B	
WT6	6L6	
QEO6/50	807	
QVO6-20	6146A, 6146B/ 8298A	
QVO6-20B	6883, 6883B/ 8032A/8552	
QVO6-20C		6159B
6AC7W	6AC7W	
6AC7WA		6AC7W
6AC7Y	6AC7W	
6AG5WA	6186/ 6AG5WA	6186
6AG7Y	6AG7Y	
6AH6WA	6AH6WA	6AH6
6AK5W	5654	
6AK6	6AK6	
6AL5W	5726W	
6AN5	6AN5	
6AQ5W	6005	
6AR6		6BG6G
6AS6	6AS6	5725
6AS6W	5725	
6AS7G	6AS7G	6080, 6080WA
6AS7GA	6AS7GA	6AS7G, 6080, 6080WA
6AS7GYB		6AS7G, 6080, 6080WA
6AU6WA	6AU6WB	6136
6AU6WB	6AU6WB	6136
6B		5561
6BA6W	5749/6BA6W	
6BE6W		5750
6C24		5786
6CY5	7717/6CY5	
6D4	6D4	
6D22		4X500A
6DJ8	6DJ8/ECC88	
6DJ8/ECC88	6DJ8/ECC88	
6F4	6F4	
6F50R		4X500A
6G21		C6J/5C21
6G58		760/6858
6G85		C6JA/5685
C6J	C6J/5C21	
C6J/5C21	C6J/5C21	
C6J/A	C6JA/5685	
6J4	6J4	8532
6J4WA		6J4†
6J4WB		6J4, 8532
6J6W		6J6WA
6J6WA	6J6WA	5964, 6101
C6JA/5685	C6JA/5685	
6L4	6F4	
6L6Y		6L6
6Y6GT	No RCA Replacement	
GQ5G	884	
6SA7Y		6SA7
6SG7Y		6SG7
6SJ7WGT		6SJ7Y, 5693
6SJ7Y	6SJ7Y	5693
6SL7WGT		5691
6SN7GTY		6SN7GTB, 5692
6V6Y		6V6
6V6GTY		6V6GTA
6X4	6202	6X4W
6X4W	6X4W	
DQ7		857B
DB7-36		3WP11
DG7-36		3WP1
QQVO7-40		829B
7BP7		7MP7
7BP7A		7MP7†
7C24	5762	
7C25		5762
7C27		5762
7C30		5762
7CP4	No RCA Replacement	
7F25		8166/4-1000A
7H57		857B
7JP1	7VP1	
7MP7	7MP7	
7NP4	7NP4	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
7TP4	7TP4	
7VP1	7VP1	
7VP31	7VP31	
7WP4	7WP4	
KT8		807
PJ8	5556	
8D21		8501
8F66R		6166
8HP4	8HP4	
8JP4		8HP4
8KP4		8NP4
8MP4		8HP4
8NP4	8NP4	
8QP4	8QP4	
8T71R		5671
8XQ		4589
9C21		5770
9C22		5671
9C25	9C25	
MS-9S	931A, 4471, 4472	
MS-9SY	1P28	
9T71		5770
S10XQA		4532A
TT10	813	
10SP4	10SP4	
BW11	834	
CE11VA/B		917
CE11VC		917
CE11VD	917	
HV12		8000
RY12-100	8020	
12A6	12A6	
12AT7WA	12AT7WA	6201, 12AT7WB
12AT7WB	12AT7WB	6201, 12AT7WA
12AU7WA		6189
12AX7A	6681/12AX7A	
12SA7Y		12SA7
12SG7Y		12SG7
12SK7Y		12SK7
12SW7	12SW7	
12SX7GT	No RCA Replacement	
12SY7	12SY7	
MF13-1	5FP7A	
DG13-2	5CP1A	
DG13-32	5UP1	
DG13-34	5ADP1	
14BAP4	No RCA Replacement	
14GT8	7724/14GT8	
TT16	4-125A/ 4D21	
TT16/D		6155
C16J	C16J/5665	
C16J/5665	C16J/5665	
17	5557	
DR17	5557	
TT17	5557	
FG17/5557/NL715	5557	
PT-17-G1		927
P17A		807
17DWP4	17DWP4	
HV18		810
FV20		8000
G20/5d		869B
RK20A		828
OS20F		8673
OS20K		8673
OS20M	8673	
VOS20H		8673
VOS20K		8673
VOS20M	8673	
KD21	OA3, OA3A	
PJ21		5556
RL21	2D21	
RX21		872A
CE21A/B		920
CE21C		920
CE21D	920	
21EYP4	21EYP4	
CE22		1P41
PJ22		917, 919
UEX22		1616
CEB22C		1P41
CEB22D	1P41	
KU23		810
PJ23	868	
CE23A/B		923
CE23C		923
CE23D	923	
BK24	5552A	
KD24	OC3,	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
KD24	0C3, 0C3A	
24G		812A
ATS25		807
KD25	0D3, 0D3A	
RK25		807
PT-25-G2		918
CE25A/B		927
CEB25A/B		927
RK25B		807
25B6G	5824	
CE25C		927
CEB25C		927
CE25D	927	
CEB25D	927	
OS25H	7389, 4536	
OS25M	8748	
VOS25H	7389C	8748
VOS25M	8748	
CV26		813
26A6	26A6	
26A7GT	26A7GT	
26C6	26C6	
26D6	No RCA Replacement	
26FZ6	No RCA Replacement	
FG27A		5559
RK28		8121
RK28A		8121
CE29		929, 1P39
CE29Q		5653
CE29R	929	
TG30		6130/3C45
CE30A/B	930, 1P40	
CE30C		930, 1P40
CE30D		930, 1P40
CE30VA/B		925
CE30VC		925
CE30VD	925	
CE31VA/B		919
CE31VC		919
CE31VD	919	
CV32		866A
EN32	2050A	
FG32	5558	
WL32	5558	
CE34Q		934
CE34R	934	
35T		812A
35TG		812A
RK36		8000
CE36A/B		927
CE36C		927
CE36D	927	
RK37		812A
RK38		810
RK39	807	
40		812A
G40	869B	
OS40		5820A, 8775
TZ40		811A
V40	8020	
OS40F		7293A
OS40H		8674
VOS40H		8674
OS40K		8674
VOS40K		8674
OS40M	8674	8775
VOS40M	8674	
HY40Z		811A
CE41	921	
RK41		807
BK42		5551A
CE42	922	
KU42	6130/3C45	
RK46		828
VT46A		866A
RK47		828
NE-48	991	
RK48A		813
PM49		7200
SR50		917
UH50	834	812A
R50A		1P41
50AVP		6199, 4517
OS50H	7295C	
VOS50H	7295C	8749
OS50M	8749	
VOS50M	8749	

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Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
HD51	0A2	
R51A		927
HY51B		8005
R51B		5583
R51BV		929
51T		8005
HY51Z		812A
HD52	0B2	
RK52		811A
52AVP		7767
SR53		917
53AVP		6342
		4518
CE54		1P41
HK54		812A
54AVP		8055, 4525
T55		8005
56AVP		8575
56DVP		8575
FG57	5559	
HY57		812A
RK57		8005
WL57	5559	
58AVP		4522
R59A		918
R59B		1P37
CE59R	5581	
R59TAV		917
HF60		8005
HY60		807
SK60		868
T60		8005
R60A		920
PM61	7764	
HY61/807	807	
R61A		930
R61AV		925
R61B		5581
R61BV		1P39
RK63		
RK63A		8000
CE64Q		5583
CE64R	5583	
T66G-GT		884
TY66G		884
HY69		1624
DY70	5642	
EC70	5718	
ECC70	6021	
V70D		8005
EC71	5718	
EF71	5899	
EL71	5902	
R71A		930
R71AV		925
EF72	5840	
VR75	0A3, 0A3A	
75PC11		8674
75PC12		8673
75TH		8005
FG81A		3C23
E81CC	6201	
CC81E	12AT7WA	
83	83	
FP85		8020
FP85A		8020
ECC88	6DJ8/ECC88	
VT88A(Br)		832A
E88CC	6922/E88CC	
DCC90	3A5	
ABC91	12A6	
EN91	2D21	
E91AA	5726	
AA91E	5726	
E91N	5727	
CE91Q		1P37
CE91R	1P37	
DF92	1L4	
EN92	5696	
DL93	3A4	
FG95		5560
E95F	5654	
FG-97		5559
CE98	5582	
DL98		3B4WA
HF100		8005
UE100		810
VT100		807
WTT-100	6X4	
T100-1		805
G100A	857B	
100R	8020	
100TH		810
100TL		8000

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
CCTV101		4591
PM101	7767	
WTT-102	5Y3GT	
ESU103	3B28, CR275/866A/ 3B25/3B28	
WTT-103	6H6	
104	5561	
WTT-104	575A	
105	105	
VR105	0C3, 0C3A	
WTT-105	892	
WTT-106	03J/5632	
STV108/30	0B2	
WTT-108	3C23	
108C1	0B2	
WTT-111	5559	
111H		812A
WTT-112	632B, 5560	
WTT-113	676	
WTT-114	0Z4A	
WTT-115	117N7GT	
WTT-117	5557	
VT118		832A
WTT-118	105	
HF120		8005
P120-1A		813
WTT-122	6SJ7	
WTT-123	6V6	
F123A		8000
CV124		807
WTT-124		6AT6
HF125		8005
T125		810
WTT-125	6N7GT	
E125A	6155	
WTT-126	50B5	
WTT-127	833A	
F127A		810
WTT-128	6K8	
WTT-129	6J5GT	
WTT-131	6C6	
WTT-132	0A4G	
WTT-133		3C23
WTT-134	C16J/5665	
PTW135		4427
WTT-135	5U4G	
R136		1P28, 1P28A
VT136		1625
WTT-136	2AP1A	
WTT-137	3AP1A	
VT138	1629	
VT139	0D3, 0D3A	
WTT-139		760/6858
HF140		8005
C143	813	
143D		2X2A
C144	829B	
VT144		813
VR150	0D3, 0D3A	
QS150/40	0D3, 0D3A	
150AVP		6199, 4517
150C1	0A2	
150C2	0A2	
150C3	0D3, 0D3A	
150CVP		7102
150T		8000
152TH		8000
152TL		8000
Q160-1	6155	
BW165		5771
172	No RCA Replacement	
PL172		8166/4-1000A
PL175A		8438/4-400A
PL177A		8165/4-65A
C180	832A	
E182F	5847/404A	
BR191B	5762	
CR192		6166
200		8000
HS200		7038
HF201		8000
HS201		7735
HF201A		8000
VT202	9002	
VT203	9003	
203A		8005
203H		8005

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
A206	579B	
207		892
R208		6903
R209		6217
WT210-0001	2D21	2D21W, 5727, 5727/2D21W
WT210-0003	884	
WT210-0004	2050	
WT210-0006	6H6	
WT210-0007		6L6
WT210-0008	866A	
WT210-0009	84/6Z4	
WT210-0011	0C3, 0C3A	
WT210-0012	80	
WT210-0013	5Z3	
WT210-0015	5557	
WT210-0018	0D3, 0D3A	
WT210-0019	83	
WT210-0021	6X5GT	
WT210-0025	117Z6GT	
WT210-0027	872A	
WT210-0028	3Q5GT	
WT210-0029	6C5	
WT210-0031	902A	
WT210-0037	117L7/M7GT	
WT210-0040	6X4	
WT210-0042	5Y3GT	
WT210-0043	C3J/5632	
WT210-0044	575A	
WT210-0045	892	
WT210-0048	5U4G	
WT210-0052	2AP1A	
WT210-0053	3AP1A	
WT210-0056	5559	
WT210-0057	5560	
WT210-0058	676	
WT210-0060	0Z4	
WT210-0061		117N7GT
WT210-0062	5557	
WT210-0067		3C23
WT210-0069	5557	
WT210-0070	5550	
WT210-0071	5551A	
WT210-0072	5552A	
WT210-0074	105	
WT210-0077	5727, 5727/2D21W	
WT210-0079	105	
WT210-0081	6SJ7	
WT210-0082	6V6	
WT210-0084	6N7, 6N7GT	
WT210-0085	50B5	
WT210-0086	833A	
WT210-0087	6K8	
WT210-0088	6J5, 6J5GT	
WT210-0090	6C6	
WT210-0091	0A4G	
WT210-0106	C3J/5632	710/6011
WT210-0108	6AS7G, 6080	
WT210-0116	5560	
WT210-0147	5552A	
WT210-0148	6AX5GTB	
WT210-0149	5551A	
WT210-0156	5551A	
WT210-0157	5552A	
WT210-0158	5551A	
WT210-0159	5552A	
WT210-0179	760/6858	
WT210-0188	C!K/6014	
WT210-0234	C16J/5665	
211		8005
211B		8005
211D		8005
211E		8005
211H		8005
R212		1P28
AH213	869B	
CE213	615/7018	5558
214E		836
CV216	0D3, 0D3A	
AH217	872A	
VT217		811A
217A		80
217C		836
220C		892
220CA		892R
HF220R		5671
AX224	3B28	
CE224		604/7014

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
Z225	866A	
Z255/866A		866A
FX227		6130/3C45
ECC230	6080	
CE-232	5558	
FG232C		892
235A	5552A	
241B		833A
242A		8005
242B		8005
WT242C		8005
245	884	
WT246	2050, 2050A	
249A		866A
249B		866A
249C		866A
HF250		8000
RG250/3000	866A	
E250A	6156	
250TH		833A
HK250TL		833A
254		810
254B		810
PTW255		4478, 7038, 7735, 7735A, 7735B
R255A		869B
255B		869B
HK256		8571
257		4E27A/5-125B
257B		4E27A/5-125B
258B		866A
260A		860
WT261	6H6	
WT261A	6H6	
WT262	866A	
WT263	84/6Z4	
266B		857B
266C		857B
VT267		8020
267B		872A
WT269	0C3, 0C3A	
WT270	80	
WT270X	5Z3	
FG271	5551A	
272	5557	
WT272	5557	
CR273/8008	8008	
CR274/872A	872A	
274A		5R4GYB
274B	5R4GYB	2076/5R4GYB
CR275/866A/ 3B28	866A 3B25/3B28	
CR275/866A/ 3B25/3B28	CR275/866A/ 3B25/3B28	
284A		845
284B		845
284D		845
VT286		832A
287A		5557
WT294	0D3, 0D3A	
295A		8005
300		8005
Z300T	0A4G	
WT301	83	
301A		83
CE302		3C23
303A		8005
304B	834	
304H		833A
304T		833A
CE306		C6JA/5685
307A		807
F307A		892
WT308	6X5GT	
CE309	5557	
310A		6C6
310B		1620
CE311	3C23	
UE311		8005
UE311CH		8000
312A		828
313C		1C21
315A		673
UE317C		836
319A		872A
CE-320	710/6011	
320A	710/6011	
320B		892
321A		673
322A		8121

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Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
323B		3C23
328A		6C6
331A		8005
339A		807
341AA		891R
342A		892
342B		8005
343A		892
348A		1620
349A		6F6
350A	807	
350B		807
351A		6X5GT
F353/A		872A
353A	872A	
354C		8000
HK354D		8000
354E		810
HK354F		810
356		5771
356A		807
356B		812A
357A		833A
357B		833A
F357B	857B	
359A		1C21
363A		892
F366A		866A
367A		673
369B		869B
371B		8020
CV372		6130/3C45
375A		575A
F375A	575A	
WT377	117Z6GT	
381	2C39A	
ML381		2C39A
384D		845
WT389	3Q5GT	
WT390	6C5	
393A		3C23
394A		627
395A		5823
FJ401	1P29	
403A	6AK5/EF95	5654
403B	6AK5/EF95	5654
404A	5847/404A	
FJ405		935
407A	407A	
408A	408A	
415	5550	
417A	5842/417A	
421A		6AS7G, 6080, 6080WA
423A		5651A, 5651WA
450TH		833A
451	8020	
460		8000
463		8000
468		810
471		8005
473		5762
CV475	5899	
CV477	5899	
481		8013A
481B		8013A
502A	2050A	2050
546		5696
VH550A	866A	
VX550A	3B28	
ZF572	2C39A	
575A	575A	
578		8020
579B	579B	
604	604/7014	
604/7014	604/7014	
604L		604/7014
WT606	2D21	
615	615/7018	5558
615/7018	615/7018	
618		5561
CV618		83
618L		5561
618P		5561
627	627	
CV627		810
CV628		811A
KU628		5559
629	No RCA Replacement	
630	2050	2050A
630A	2050	2050A
631	5559	
CV631		828
CV632		829B

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
632A	632B	
632B	632B	
KU634	677	
635	635/7019	5561
CV635		833A
635/7019		5561
CV636		836
CV642		872A
651	5552A	
651/656	5552A	
652	5551A	
652/657	5551A	
656	5552A	
657	5551A	
CV659		1625
WT669	117L7/M7GT	
672	672A	
672A	672A	
673	673	
676	676	
677	677	
678		5563A
681	5550	
681/686	5550	
RS685	6155	
686	5550	
CV686	0C3, 0C3A	
WT699	5550	
710	710/6011	676
710/6011	710/6011	676
710L		710/6011
714	714/7021	5557
714/7021	714/7021	5557
715	5557	
715/5557	5557	
715/5557/FG17	5557	
716/6855	716/6855	
EF730	5636	
EF731	5899	
EF732	5840	
WL734		917
WL735	868	
WL741	923	
CV752	0A4G	
760	760/6858	
760/6858	760/6858	
760L		760/6858
760P		760/6858
WL762		1947
WL767		935
WL773		935
WL775		935
778		760/6858
778L		760/6858
778P		760/6858
CV788		832A
CV797	2D21	
800		812A
801		807
ECC801	6201	
801A		807
801A/801		807
ECC801S	6201	
802		807
ECC802	12AU7WA	
ECC802S	6189/ 12AU7WA	
803		8121
804		828
805		8005
806		8000
807	807	
CV807	3A4	
P807		8674
P807/E	8674, 8673	
808		812A
809		8005
P809	8673, 8674	
810	810	
P810		4478
811	811A	
P811		8749
811A	811A	
P811/E	7295C	8749
812	812A	
P812		7389C, 8748
812A	812A	
UE812H		8005
813	813	
P813	7038	
813/V1	813/V1	
814		828

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
814/RK47		828
815		829B
816	816	
P816	5820A/L	8775, 5820A
P817		7513, 8673
P820	7038	
P822	7389C	8748
P822/E	7389C	8748
T822		810
826		812A, 829B
827R	827R	
828	828	
829	829B	
829A	3E29	
829B	829B	
830B	830B	8005
P831		4503A
832	832A	
832A	832A	
833	833A	
833A	833A	
834	834	812A
836	836	1616
837		1625
838		812A
P841	8507A	
P841F	4589	
P842		8541A
P842X	8541A/X	
P843	8572A	
P844		8541A
845	845	
P846		8507A
P847		8541A
P848	8507A	
P849	4595	
P851		8674/S
P852	4416/S	8674/S
P854		4591
S856	0A2	
857	857B	
857B	857B	
P857		4536
P858	4536	
860	860	8072
P860		4478, 7038, 7735, 7735A, 7735B
S860	0B2	
861		8438/4-400A
P861		4503A
P862	4478, 7262A, 7735, 7735A, 7735B	
P864	4478, 7262A, 7735, 7735A, 7735B	
865		807
P865		4542
866	866A	
866A	866A	
866A/866	866A	
866AX		866A
866JR		816
P867		8572A
868	868	
868/PJ23	868	
P868	4542	
869A	869B	
869B	869B	
872	872A	
872-AX		872A
872A	872A	
872A/872	872A	
F872B		872A
P874		8673
P875		8674
T875A	575A	
878		8013A
879	2X2A	
884	884	
885		884
VA888B	8766	
VA888D	4658	
VA888E	8811	
889A	No RCA Replacement	
889R	889RA	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
889RA	No RCA Replacement	
P890		8673
VA890	8824	
891		892
891R	891R	
VA891	8825	
892	892	
892R	892R	
P892		8674
VA892	8826	
893AR		5671
P893	4493	
UE893RA		5671
P894	4494	
P895	4495	
Z900T	5823	
EAA901	5726	
EAA901S	5726	
902	902A	
902A	902A	
EF905	5654	
UE905		8005
906P1	3AP1A	
V907		8674, 8673
V909		8673, 8674
V911	7295C	8749
917	917	
918	918	
919	919	
920	920	
TX-920		5559
921	921	
922	922	
V922	7389C	8748
923	923	
924		1P41
925	925	
926	926	
927	927	
929	929, 1P39	
930	930, 1P40	
UE930		8005
UE930B		8005
931	931A	
931A	931A	
931VA	931VA	
934	934	
935	935	
UE945	845	
954		9001
955	No RCA Replacement	
956		9003
958A		9002
959	959	
UE966	866A	
UE966A	866A	
967	5557	
UE972	872A	
UE972A	872A	
UE973		677
UE975A		575A
991	991	
XP1000	6342A	8053, 4523
STE1000/2.5/15	5559	
RG1000/3000	872A	
NL1001		5550
XP1001	6342A	8053, 4523
RS1002	6156	
XP1002		4463
XP1004		6903
NL1005		5551A
RS1007	6155	
XP1010		6199, 4517
XQ1010		4514
XP1011		4440
XP1015		4461
XP1010		8575
XQ1020	4592L	
XQ1020B	4592B	
XQ1020G	4592G	
XQ1020L	4592L	
XQ1020R	4592R	
XP1021		8575
XQ1021	4592L	
XQ1021B	4592B	
XQ1021G	4592G	
XQ1021R	4592R	
XP1030		8054, 4524

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Type to be Replaced Basic Designation	RCA Replacement Direct	RCA Replacement Similar
XQ1030		7262A
XP1031		8054, 4524
XQ1040		8541A
XP1040		4522
XQ1042		8541A
XQ1043		8541A
XQ1044		8541A
XQ1050		8541A, 8507A
1051		5551A
1051A		5551A
1052		5552A
1052A		5552A
XQ1052		8541A, 8507A
XQ1053		8541A, 8507A
XQ1054		8541A, 8507A
XQ1060		8541A/X
XQ1061		8541A, 8507A
XQ1062		8541A, 8507A
XQ1063		4595, 8541A
XQ1064		4595
XQ1065		8541A, 8507A
CR1101		6181
C1108	6155	
XP1110		7767, 4516
R1111		1947
XP1111		7767, 4516
C1112	6156	
XP1113		7764
XP1115		4460
XP1117		8644
XQ1120		8134, 8134/V1
XQ1121		8134, 8134/V1
PTW1135		4427
CV1144		5557
XQ1160	4503A	
XQ1161	4503A	
XQ1180		4588
XQ1181		4588
XQ1200	4532A, 4532	
QS1205	0A3, 0A3A	
QS1206	0C3, 0C3A	
QS1207	0A2	
QS1208	0B2	
QS1210	0A2WA	
QS1211	0B2WA	
1217		5915
TC1250	8673	
TW1251	8674	
PTW1255		4478, 7038, 7735, 7735A, 7735B
1257	5559	
VC1258		6130/3C45
H1261		4532A, 4532
1266		5823
1267		2A3
RL1267	0A4G	
K1295		8053
K1303		4460
K1305		6217
K1306		6903
1319	1319	
TD1319		7038
TD1320	7038	
K1322		4438, 6199, 7102
TD1325		7735
TD1337		8134
TD1339		8567
TD1340		8507A
TD1341		8541A, 8507A
TD1342		4503A
TD1343		4514
TD1347		4514
TD1348		4503A
TD1354		7263A
K1361		6199, 4441
TD1368		7263A
CV1374		807
K1382		7767
K1390		8054
K1391		8055
K1404		8644
K1427		6903
K1430		8645

Type to be Replaced Basic Designation	RCA Replacement Direct	RCA Replacement Similar
K1447		4463, 7326
CV1449		872A
E1485	3A4	
K1485		4464
K1500		8053, 7746, 6342A
K1519		6217
CV1572	807	
VD1601	4532A, 4532	
VD1602	4532A, 4532	
VD1603	4532A, 4532	
1603		1620, 5879
1612	1612	
1613	No RCA Replacement	
1614	1614	
1616	1616	
1619	1619	
1620	1620	
1621	1621	
1622	1622	
1624	1624	
1625	1625	
1629	1629	
1631		6L6
1635	No RCA Replacement	
1640	6405/1640	
1654A		934
1659	No RCA Replacement	
1699	1699	
1701	5557	
1702		5563A
K1716		8645
K1717		8645
CV1758	1L4	
1802P1	5BP1A	
CV1832	0A2	
CV1833	0B2	
A1834	6AS7G	
CV1835		3B28
1852	6AC7	
1854		7513, 8673
1855		7539
1858	1858	
1899		2F21
CV1905		8165/4065A
K1927		7326
1946	1946	
1947	1947	
1949	1949	
1950		1949
E1955	2D21	
CV1992	0A4G	
2020	2020	
2022	2022	
2029		6806
2031	2031	
2032	No RCA Replacement	
2039	6950	
2041	2041	
2043	2043	
2048	2048	
2048A		7263A
2050	2050	2050A
2050A	2050A	2050
2051	2050	2050A
2053	2053	
2054	2054	
2054V1	2054	
2055	2055	
2057/6H6	No RCA Replacement	
2060	2060	
2061	2061	
2062	2062	
2063	2063	
2064	2064B	
2064B	2064B	
2065	2065	
2067	2067	
2076/5R4GYB	2076/5R4GYB, 5R4GYB	
2081/6A8WA	2081/6A8WA	
2081/6AW8A	2081/6AW8A	
2082/12AY7	2082/12AY7	
2100A	8020	
CV2129	5763	
CV2130	6155	
CV2131	6156	
CV2191		5CP1A
CV2240		3B4WA
CV2241	5642	
PTW2255		4595, 8057A, 8541A, 8572A

Type to be Replaced Basic Designation	RCA Replacement Direct	RCA Replacement Similar
CV2383		5762
CV2390	3A4	
QS2404	5726	
QS2406	6201	
QA2408	5692	
CV2466	6939	
CV2492	6922/E88CC	
CV2516		2C39A
CV2522	6AS6	
2525A5	5BP1A	
CV2573	5651A	
CV2642	5842/417A	
CV2662	5639	
CV2666		829B
CV2680		868
PTW2700		8134
CV2723		869B
CV2742	1L4	
CV2753		C3JA/5684
CV2795	1L4	
CV2876	5727	
CV2957		5557
CV2963		4-125A/4D21
CV2964		4-250A/5D22
CV2967		8020
CV2984	6080	
3069	866A	
3070	872A	
CV3508	6201	
CV3512	5696	
CV3523		6146A, 6146B/8298A
3572	866A	
CV3599		3E29
CV3789	5842/417A	
CV3798	0A3, 0A3A	
3874A	813	
CV3879		8438/4-400A
3885A	3B28	
CV3928	5636	
CV3929	5840	
CV3930	5718	
CV3946		3WP1
CV3959		5FP7A
CV3986	6021	
CV3990		2E26
TC4000	7389C	
TW4002	7295C	
TC4003	4536	
CV4008	5719	
4009	No RCA Replacement	
CV4009	5749	
4010	No RCA Replacement	
CV4011	5725	
4012	4012	
4013	4013	
4015	4015	
4017	4017	
CV4017	5751	
CV4018	5727	
4019	4019	
4020	4020	
CV4020	0A2WA	
4021	4021	
CV4023	6AU6WB	
CV4024	12AT7WA	
CV4025	5726	
4028	4028A	
CV4028	0B2WA	
4028A	4028A	
CV4029	5902	
CV4031	6101	
4036	8379	
4037	4037A	
4037A	4037A	
CV4039	5763	
4041	4041	
CV4048	5651WA	
A4051	807	
4053	4053	
4054	4054	
4055	4055	
4058	4058	
4060–4061	4070–4071	
4062A	4062A	
4065	4065	
4068	4068	
4070–4071	4070–4071	
4072	4072	
4074	4074	
CV4100	0A2WA	
CV4101	0B2WA	
TC4250	8748	

Type to be Replaced Basic Designation	RCA Replacement Direct	RCA Replacement Similar
TW4251	8749	
4401	5820A	
4401V1		8775†
4401V2	4401V2	
4407	4407	
4409	4409	
4412	4412	
4414	5820A	8775
4414/7611	5820A	8775
4415		8674
4415/S		8674/S
4415V1	4415/S	8674, 8674/S
4416		8674
4416/S		8674/S
4421	1P28	
4427	No RCA Replacement	
4438	4438	
4439	4439	
4440	4440	
4441	4441	
4441A	4441A	
4443	6914	
4449	4449A	
4449A	4449A	
4454	4454	
4456	4456	
4459	4459	
4460	4460	
4461	4461	
4463	4463	
4464	4464	
4465	4465	
4470	4470	
4471	4471	
4472	4472	
4473	4473	
4478	4478	
4482	No RCA Replacement	
4486	4486	
4488	7735	
4489	No RCA Replacement	
4490	4490	
4491	4491	
4492	4492	
4492V1	4536	
4492V2	4536	
4493	4493	
4494	4494	
4495	4495	
4499	4499	
4500	4500	
4503	4503A	
4503A	4503A	
4506	4506	
4510	4510	
4513		8673
4513/S		8673/S
4514	4514	
4516	4516	
4517	4517	
4518	4518	
4521	4521	
4522	4522	
4523	4523	
4524	4524	
4525	4525	
4526	4526	
4532	4532	
4532A	4532A	
4536	4536	
4536A	4536	
4536V1	4536	
4542	4542	
4547	4547	
4557	4557	
4559A/8507A	4559A/8507A	
4560	4560	
4572	4572	
4589	4589	
4591B	4591B	
4591G	4591G	
4591L	4591L	
4591R	4591R	
4592B	4592B	
4592G	4592G	
4592L	4592L	
4592R	4592R	
4595	4595	
4600A	4600A	
4602		6949
4603	6949	
4604	4604	
4605		8587
4605V1		8587

Replacement | Directory (cont'd)

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
4605V2	8587	
4606	5762	
4610	4610	
4612	No RCA Replacement	
4614	4614	
4615	8596	
4616	4616	6952
4617	4617	
4618	4618	
4620	857B	
4621	4621	
4624	4624	
4626	4626	
4628	4628	
4629	4629	
4629A	4629A	
4630	4630	
4631	4631	
4632	4632	
4633	4633	
4634	4634V1	
4634V1	4634V1	
4635	4635	
4636	4636	
4636/V1	4636/V1	
4636/V2	4636/V2	
4637	4637	
4638	4638	
4640	4640	
4641	No RCA Replacement	
4647	4647	
4648	4648	
4651	4651	
4652/8042	4652/8042	
4653	4653	8072
4654/5762	4654/5762	
4655	4655	
4656	4656	
4657	4657	
4658	4658	
4659	4659	
4660	4660	
4661	4661	
4662	4662	
4662/V1	4662/V1	
4664	4664	
4665	4665	
4665-01	4665-01	
4666	4666	
4667	4667	
4668	4668	
4670	4670	
ASG5017	5557	
PA5021	866A	
TH5021B	866A	
ASG5023	3C23	
TH5031B	872A	
CV5035		5ADP1
E5036	4532	
TH5071	857B	
ASG5121	2D21	
CV5122	5823	
CV5186	5651A	
AG5210	0B2	
AG5211	0A2	
CV5212	6201	
TH5221V/B	3B28	
CV5362		6861
5514		811A
5516		2E24
5530		5762
5550	5550	
5550/GL415	5550	
5550/681	5550	
5550/681/686	5550	
5551	5551A	
5551/652	5551A	
5551/FG271	5551A	
5551A	5551A	
5551A/652	5551A	
5552	5552A	
5552/651	5552A	
5552/FG235A	5552A	
5552A	5552A	
5552A/651	5552A	
5556	5556	
5556/PJ8	5556	
5557	5557	
5557/17	5557	
5557/715	5557	
5557/FG17	5557	
5557/FG17/1701	5557	
5558	5558	
5558/32	5558	
5558/FG32	5558	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
5559	5559	
5559/57	5559	
5559/FG57	5559	
5560	5560	
5560/FG95		5560
5561	5561	
5561/104	5561	
5561/FG104	5561	
5563	5563A	
5563A	5563A	
5581	5581	
5582	5582	
5583	5583	
5588		6161
5590/401B		5654
5591/403B		5654
5592		9C25
5604		9C25
5604A		9C25
5606		892
5632	C3J/5632	
5632/C3J	C3J/5632	
5636	5636	
5636A		5636
5639	No RCA Replacement	
5642	5642	
5651	5651A	5651WA
5651A	5651A	5651WA
5651WA	5651WA	5651, 5651A
5652	5652	
5653	5653	
5654	5654	
5654/6AK5W		6Ak5/EF95
5654/6AK5W	5654	
6096		
5659		12A6
5661		12SK7
5663	5663	5696
5664		3C23
5665	C16J/5665	
5665/C16J	C16J/5665	
5668		892
5669		892R
5670	5670	5670WA
5670WA		5670
5671	5671	
5672	5672	
5675	5675	
5678	5678	
5684	C3JA/5684	3C23
5684/C3JA	C3JA/5684	3C23
5685	C6JA/5685	
5685/C6JA	C6JA/5685	
5686	5686	
5687	5687	
5690	No RCA Replacement	
5691	5691	
5692	5692	
5693	5693	6SJ7Y
5695		816
5696	5696	5696A
5696A	5696A	5696
5713	5713	
5718	5718	
5718A	5718	
5719	No RCA Replacement	
5719A	5719	
5725	5725	6AS6
5725/6AS6W		6AS6
5726	5726	
5726/6AL5W		5726
5726/6AL5W		5726
6097		
5727	5727	
5727/2D21W	5727	2D21
5734	5734	
5736		5762
5741		8020
5743		5556
5749	5749	
5749/6BA6W		5749, 6BA6/EF95
5750	5750	6BE6
5751	5751	
5751WA		5751
5762	5762	
5762/7C24	5762	
5762A	5762	
5763	5763	
5770	5770	
5771	5771	
5783	No RCA Replacement	
5786	5786	
5794		6562/5794A
5794A	6562/5794A	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
5812		5763
5814	5814A	
5814A	5814A	
5814WA		5814A, 6189
5819	5819	
5820	5820A	
5820A	5820A	
5820A/E	5820A/L	8775
5820A/L	5820A/L	8775
5820B		8775
5820E	5820A/L	8775
5823	5823	
5824	5824	
5825	5825	
5840	5840	
5804A		5840
5840W	5840W	
5842	5842/417A	
5842/417A	5842/417A	
5844		5964
5847/404A	5847/404A	
5868/AX9902		833A
5876	5876A	
5876A	5876A	
5881	5881	
5891		5671
5893	5893	
5896	No RCA Replacement	
5897	5718	
5898	5719	
5899	5899	
5899A	5899	
5900	5899	
5901	5840	
5902	No RCA Replacement	
5915	5915	
5915A		5915
5917		5762
5918		5770
5919		5671
5920		5964, 6101, 6J6WA
5930		2A3
5931		5U4GB
5932		7027A
5933		807
5933WA		807
5934		579B
5946	5946	
5963	5963	5814A
5964	5964	6J6WA, 6101
5965	5965	
5965A		5965
6005	6005	
6005/6AQ5W		6005, 6AQ5A
6005/6AQ5W/6095		6005, 6AQ5A
6011	710/6011	
STE6011	710/6011	
6011/710	710/6011	
6012	6012	5727
6014	C1K/6014	
6014/C1K	C1K/6014	
6021	6021	
6028	408A	
6028/408A	408A	
TH6031		5559
6032		6914
6032A		6914
6057		5751
6058		5726
6060		6201
6062		5763
6067		5814A
6072	6072	6072A
6072A	6072A	6072
6073	6073	6073/0A2, 0A2
6073/0A2		6073, 0A2
6074	6074	6074/0B2, 0B2, 0C3A
6074/0B2	6074/0B2	6074, 0B2
6076	6076	
6076A	6076A	
6080	6080	6080WA, 6AS7G
6080WA	6080WA	6080, 6AS7G
6082	No RCA Replacement	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
6082A		6082
6084		5879
6085		5692
6094		6005
6095		6005
6096		5654
6097		5726
6099		5964, 6101
6101	6101	5964, 6J6WA
6101/6J6WA		5964, 6J6A
6111	No RCA Replacement	
6112	No RCA Replacement	
TH6120		105
6130	6130/3C45	
6130/3C45	6130/3C45	
6136	6136	6AU6WB
6140/423A		5651WA
6146	6146A, 6146B/8298A	
R6146	8008, CR273/8008	
6146A	6146A, 6146B/8298A	
6146B/8298A	6146B/8298A	
6146W	6146W	
6146W/7212	6146W	
6155	6155	
6155/4-125A	6155	
6156	4-250A/5D22	
6159	6159B	
6159A	6159B	
6159B	6159B	
6159W	6159W	
6159W/7357	6159W	
6161	6161	
6166	6166	
6166A	6166A/7007	
6166A/7007	6166A/7007	
6173	6173	
6180		5692, 6112
6181	6181	
6186		6186/6AG5WA, 6186W
6186/6AG5WA	6186/6AG5WA	6186
6189		5814WA
6189/12AU7WA	6189	5814A, 5963, 12AU7A/ECC82
6197	6197	
6198		4478, 7038, 7735, 7735A, 7735B
6198A		4478, 7038, 7735, 7735A, 7735B
6199	6199	
6201	6201	12AT7WA, 12AT7WB
6202	6202	
6205	No RCA Replacement	
6206	No RCA Replacement	
6211	6211	
6211A		6211
6217	6217	
TH6230		3C23
6255B		8575
6255S		8575
6263	6263A	
6263A	6263A	
6264	6264A	
6264A	6264A	
6267		5879
6277/3B28A	3B28	
6283		7650
6291		6199
6293	6293	
6326		7038
6326A		7038
6328	6328	
6333		892
6336		6336A
6336A	6336A	
6337		6336A
6342	6342A	
6342A	6342A	
TH6345		6130/3C45
6346		5551A

Replacement | Directory (cont'd)

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
6347		5552A
6350	6350	
6360	6360	6360A
6360A	6360A	
6362		7767
6363		8054
6364		8055
6381	6381	
6385		5670
6386	6386	
6394		6082
6405/1640	6405/1640	
6414		5965
6417	6417	7551
6445		892R
6446		892
6447		892R
6448	6448	6806
6467		6199
6472	6472	
6474		7513, 8673
6474/1854		7513, 8673
6485	6485	
6486		5725
6486A		5725
6499	6499	
6520		6AS7G, 6AS7GA
6521	6521, 6521/R	
6521/R	6521, 6521/R	
6524	6524	
6528	6528	
6549		8165/4-65A
6550	6550	7027A
6550V1	6550V1	
6562	6562/5794A	
6562/5794A	6562/5794A	
6570	6570	
6576		5771
6626	6626/0A2WA	0A2, 0A2WA, 0D3, 0D3A
6626/0A2WA	6626/0A2WA	0A2, 0A2WA, 0B2, 0C3, 0C3A
6627		0B2, 0B2WA, 6074
6655	6655A	
6655A	6655A	
6660	6660/6BA6	5749
6660/6BA6	6660/6BA6	
6661	6661/6BH6	
6661/6BH6	6661/6BH6	
6662	6662/6BJ6	
6662/6BJ6	6662/6BJ6	
6663	6663/6AL5	5726
6663/6AL5	6663/6AL5	
6664	6664/6AB4	
6664/6AB4	6664/6AB4	
6669	6669/6AQ5A	6005
6669/6AQ5A	6669/6AQ5A	
6676	6676/6CB6A	
6676/6CB6A	6676/6CB6A	
6677	6677/6CL6	
6677/6CL6	6677/6CL6	
6678	6678/6U8A	
6678/6U8A	6678/6U8A	
6679	6679/12AT7	12AT7WA, 12AT7WB
6679/12AT7	6679/12AT7	
6680	6680/ 12AU7A	
6680/12AU7A	6680/ 12AU7A	
6681	6681/ 12AX7A	
6681/12AX7	6681/ 12AX7A	
6681/12AX7A	6681/ 12AX7A	
6686	6686	
6687		5915
6688A	6688A	
6693		6895
6696		5770
6697A	6697A	
6759		5762

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
6775		8438/4-400A
6806	6806	6448
6807		C6T/5C21
6810	6810A	
6810A	6810A	
6810B		6810A
6814	No RCA Replacement	
6816	6816	
6829		5965
6849		7198A
6850	6850	
6858	760/6858	
6858/760	760/6858	
6861	6861	
6866	6866	
6883	6883, 6883B/ 8032A/8552	
6883A	6883B/ 8032A/8552	
6883B	6883B/ 8032A/8552	
6883B/8032A/ 8552	6883B/ 8032A/8552	
6884	6884	
6887	6887	
6893		2E26
6894	6894	
6895	6895	
6896/1855		7539
6897	6897	
6901		3C23
6903	6903	
6907		6850
6911		7102
6914	6914	
6914A	6914A	
6922	6922/E88CC	
6922/E88CC	6922/E88CC	
6929	6929	
6935		7767
6939	6939	
6949	6949	
6949/V1	6949/V1	
6950	6950	
6950/2039	6950	
6952	6952	4616
6953	6953	
6977	6977	
7000		1620
7007	6166A/7007	
7008	No RCA Replacement	
7014	604/7014	
7018	615/7018	
7019	635/7019	
TH7020		5551A
7021	714/7021	
TH7021		5551A
TH7030	5552A	
7034/4X150A		4X150A
7035/4X150D		4CX250B
7036		5915
7038	7038	
7038A		7038
7038H		7038
7038V		7735B
7043	No RCA Replacement	
7044	7044	
7046		4522
M7050L		8673
7054	7054, 8077/7054	
7055	7055	
7056	7056	
7057	7057	
7058	7058	
7059	7059	
7060	7060	
7061	7061	
7062		5965
7079		6111
7085		5771
M7091		8673
M7092		8673
7094	7094	
7102	7102	
7105		6080, 6080WA, 6AS7G
7117	7117	
7136		575A, 6894
7167	7167	
7183	7183A	
7183A	7183A	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
7198	7198A	
7198A	7198A	
7200	7200	
7203/4CX250B		4CX250B
7203/ 4CX250B/V1	4CX250B	8122
7204/4CX250F	7204/CX250F	8122
7212	6146W	
7213	7213	
7214	7214	
7216	C3JL	
7225		6499
7226		7262A
7226A		7263A
7244		6101, 6101/6J6WA, 6J6WA
7244A		6101, 6101/6J6WA, 6J6WA
7245		6J4, 6J4WA, 8532, 8532/6J4WA
7245A		6J4WA
7258	7258	
7262	7262A	
7262A	7262A	
7263	7263A	
7263A	7263A	
7264	7264	
7265	7265	
7268		7268B
7268A		7268B
7268B	7268B	
7270		8121
7271	7271	
7289/3CX100A5		6897
7291		7038
7291A		7038
7293	7293A	8674
7293A		8674
7293A/L		8674
7293B		8674
7293E		8674
7294		8673
7294/E		8673
7295	7295B	8749
7295A	7295B	8749
7295B	7295B	8749
7295B/E	7295C	8749
7295B/L		7295C
7295C	7295C	8749
7305	1P22	
7307	710/6011	676
7308	7308	
7315	7315	
7318		5814A
7325		4478, 7735, 7735A, 7735B
7326	7326	
7351		4500
7351A		4500
7357	6159W	
7358		6293
7360	7360	
7370		5687
7386		760/6011
7389	7389B, 7389C	8748
7389A	7389B, 7389C	8748
7389B	7389B, 7389C	8748
7389B/L		7389C
7389C	7389C	8748
VH7400	872A	
7448		7315
7457	7457	
7459		5762
7465		9C25
7509		710/6011
7513		8673
7513/L		8673
7513/S		8673/S
7513/V1		8673/S
7513/V2		8673/S
7533	7533	
7539	7539	
7543		6AUGWB
7551	7551	
7552	7552	
7553	7553	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
7554	7554	
7558	7558	
7566		6499
AX7585		5552A
7586	7586	
7587	7587	
7609		7203/4CX250B
7611	5820A/L	8775
7629A	No RCA Replacement	
7642	7642	
TWSI/7642	7642	
7643	7643	
7645	6939	
7649	7649	4621
7650	7650	
7650/V1	7650/V1	
7651	7651	
7669		5551A
7671		5552A
7675		1949
7697		4478, 7735, 7735A, 7735B
7697		7735
7701		7551
7717	7717/6CY5	
7717/6CY5	7717/6CY5	
7724	7724/14GT8	
7724/14GT8	No RCA Replacement	
7728	6201	
7729		12AX7A/ECC83, 6681/12AX7A
7730	6189/12AU7WA	
7731		6678/6U8A
7732		6CB6A/6CF6
7733		5814A, 5963
7735	7735	
7735A	7735A	
7735B	7735B	
7746	7746	
7764	7764	
7767	7767	
7788	7788	
7801	7801	7870
7817		6342A
7819		8055
7835	7835	
7838		5671
7842	7842	
7843	7843	
7844		6816
7850	7850	
7854		829B
Z7856		4542
7860		7767
7870	7870	7801
Z7888		8673
7895	7895	
7898	7898	
Z7899	5820A/L	8775
7900		5762
7905	7905	
7911		7649
Z7911		4478
Z7912	4503A	
Z7915		8541A/X
Z7919	4595	
Z7929	8134	
Z7929B	4495	
Z7929G	4494	
Z7929R	4493	
Z7933		4503A
Z7947		8541A
Z7951		7262A, 7735A
7967	No RCA Replacement	
Z7975		4532A
7984		6883B/ 8032A/8552
Z7998		8507A
Z7999		4591
8000	8000	
P8000 series		4591
TV8000	8541A	
P8001 series	4592 series	
8005	8005	
8008	8008	
8013A	8013A	
8014A		5786
8016		1G3GT/1B3GT
8020	8020	
8020/100R	8020	
8032	8032, 6883B/ 8032A/8552	

Replacement | Directory (cont'd)

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
8032A	6883B/ 8032A/8552	
8042	4652/8042	4604
TV8050	8573A	
8051	8051	
8053	8053	
8054	8054	
8055	8055	
8056	8056	
8057		1949
8058	8058	
8062		7102
8072	8072	
8077	8077/7054	7054
8077/7054	8077/7054	7054
M8079	5726	
M8081	6101	
8092A	No RCA Replacement	
8092A/S	No RCA Replacement	
8093		8673
8093A		8673
8093A/E		8673
8093A/L		8673
8093B		8673
M8096	5763	
8106	8106	
8121	8121	
8122	8122	
8122/V1	8122/V1	
8134	8134	
8134/V1	8134/V1	
8136	8136	
M8136	6189/ 12AU7WA	
8149		6146B/8298A, 6883B/ 8032A/8552
8150		6146B/8298A, 6883B/ 8032A/8552
8156	No RCA Replacement	
8161		5762
8161/3X2500A3		5762
M8162	12AT7WA	
8163		8438/4-400A
8164		8166/4-1000A
8165/4-65A	8165/4-65A	
8166/4-1000A	8166/ 1000A	
8167/4CX300A	8167/ CX300A	
8168/4CX1000A	8168/ 1000A	
8170/4CX5000A	8170/5000A	
8171/ 4CX10000D	8171/ CX10D	
8177		7213
8179		8166/1000A
8184	8184	
M8196	5725	
8203	8203	
M8204	5727	
M8212	5726	
M8223	0A2WA	
M8224	0B2WA	
8226	8226	
8227	4621	
M8232	8532/6J4WA	
8233	8233	
8234	8234	
8239/3X3000F1	8239/ 3000F	
M8245	6005	6005/6AQ5W
8269		5762
8281/4CX15000A	8281/ CX15A	
8294/4036	8379	
8295		8166/4-1000A, 7213
8295A		8166/4-1000A, 7213
8298	6146B/8298A	
8298A	6146B/8298A	
8355		7735B
8379	8379	
8380	7587	
8382	7586	
8386		5770

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
8393	8393	
8415		8122
8434		575A, 6894
8435		673, 6895
8437	8437	
8438/4-400A	8438/4-400A	
8441	7895	
8462	8462	
8480	8480	
8480/V1	8480/V1	
8483		4478, 7735, 7735A, 7735B
8484	4478, 7735, 7735A, 7735B	
8484H		4478, 7735, 7735A, 7735B
8485		8507A
8500		7650
8501	8501	
8501/V3	8501/V3	
8507	8507A	
8507A	8507A	
8511		7262A
8521	8521	
8532	8532	
8532/6J4WA	8532	6J4, 6J4WA
8541	8541A	
8541A	8541A	
8541A/X	8541A/X	
8552	8552, 6883B/8032A/ 8552	
8556	8056	
8561		8226
8566		8507A, 8572A
8567	8567	
8568	8568	
8571	8571	
8572		8572A
8572A	8572A	
8572V		8507A
8573		8573A
8573A	8573A	
8575	8575	
8575/V1	8575/V1	
8576		5762
8587	8587	
8587/4605V2	8587	
8596	8596	
8604		8572A, 8541A
8605/V1	8605/V1	
8605/V2	8605V2	
8606	8606	
8625	8507A, 8572A	
8626		8541A
8627	8627	8627A
8627A	8627A	
8628	8628	
8644	8644	
8645	8645	
8664	8664	
8664/V1	8664/V1	
8673	8673	
8673/S	8673/S	
8674	8674	
8674/S	8674/S	
8684	8684	
8685	No RCA Replacement	
8727	8727	
8748	8748	
8749	8749	
8758		7262A
8766	8766	7262A
8775	8775	
8791	8791	8791/V1
8791/V1	8791/V1	
8792	8729	8792/V1
8792/V2	8792/V2	

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
8793	8793	
8794	8794	8793
8806	8806	
8807	8807	
8808	8808	
8811	8811	
8815		8480
8816		8134
8824	8824	
8825	8825	
8826	8826	
8828	8828	
8840	8840	
8840/V1	8840/V1	
8850	8850	
8857/V1	8857/V1	
8857/V2	8857/V2	
8890	8890	
8891	8891	
8916	8916	
9001	9001	
9002	No RCA Replacement	
9003	9003	
9005	No RCA Replacement	
9006	9006	
9226KB		2067
9514B		8575
9514S		8575
9524C		6199
9530B		8055
9536B		6342A, 8053
9564	7295B	7295C, 8749
9565	7389B	7389C, 8748
9578B		8054
9579B		8055
9600		2067
9609B		8575
9634B		8575
9634QB		8575
9635B		8575
9637B		7764
9637KB		7764
9638B		2067
9656KB	8053	
9656KS	4523	
9656QKB		6903
9660B		1P28
9661B	1P28, 1P28A	
9662B		7200
9665B		7200
9677		8541A
9677A		8541A
9684B		7102
9698B		8644
9708B		8054
9708KB		8054
9708KR		4525
9708R		4525
9708S		4524
9709B		8055
9709KB		8055
9709R		4525
9710TB		4464
9726B		2067
TH9806		4478, 7735, 7735A, 7735B
TH9806PA		8541A
TH9807		4478, 7735, 7735A, 7735B
TH9807PA		8541A
TH9808		4478, 7735, 7735A, 7735B
TH9808F0		4589
TH9808PA		8541A
TH9811		7262A
TH9812		4478, 7735, 7735A,

Type to be Replaced Basic Designation	RCA Replacement Direct	Similar
		7735B
TH9812PA		8541A
TH9813		8134
TH9814		7263A
TH9815		7735B
TH9815PA		8541A/X
TH9817		7735B
TH9817PA		8507A
TH9821		4514
TH9830PA		8521
TH9831		8480
TH9892		4588
AX9911		6130/3C45
10667F		7038
10667G		4478, 7735, 7735A, 7736B
10667M		4478, 7735, 7735A, 7735B
10667S		4478, 7735, 7735A, 7735B
10667SC		4478, 7735, 7735A, 7735B
10667T		4478, 7735, 7735A, 7735B
GLE13000/1.5/6	872A	
GLE15000/1/4	872A	
GLE20000/2.5/10		869B
38166	866A	
38172	872A	
QY53000A	6076	
55850		7038
55875	4591L	
55875B	4591B	
55875G	4591G	
55875	4591R	
56000	8020	
CCa	6922/E88CC	
SBS	5551A	
SCS	5552A	
TGRA		575A
TGRB		872A
TVTA		892
TVTB		833A
TVTB		

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